



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: April 29, 2011

Effective Date: May 1, 2011

Expiration Date: April 30, 2016

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 06-05069

Federal Tax Id - Plant Code: 23-1315454-1

Owner Information

Name: EAST PENN MFG CO INC  
Mailing Address: DEKA RD  
PO BOX 147  
LYON STATION, PA 19536

Plant Information

Plant: EAST PENN MFG CO INC/BATTERY ASSEMBLY  
Location: 06 Berks County 06953 Richmond Township  
SIC Code: 3691 Manufacturing - Storage Batteries

Responsible Official

Name: TROY GREISS  
Title: DIR, ENV HEALTH & SAFETY  
Phone: (610) 682 - 6361

Permit Contact Person

Name: ERIC G PEFFEL  
Title: SR ENG - AIR QUALITY  
Phone: (610) 682 - 6361

[Signature] \_\_\_\_\_  
WILLIAM R. WEAVER, SOUTH CENTRAL REGION AIR PROGRAM MANAGER

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## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
111	A-1 MIXING (SCIEN FC 1) & PASTING (FARR CC 4)	200.000	Each/HR	STORAGE BATTERIES
112	A-1 DRY CHARGE AREA (WHEEL FC 2, SCIEN FC 6 & FARR CC 4)	200.000	Each/HR	STORAGE BATTERIES
113	A-1 GRIDCAST (SCIEN FC 6 & SCIEN FC 5)	200.000	Each/HR	STORAGE BATTERIES
114	A-1 BATTERY ASSM (FARR CC 4 & SCIEN FC 6)	200.000	Each/HR	STORAGE BATTERIES
116A	A-1 LEAD OXIDE STORAGE SILOS (2) (BIN VENTS)			
118	A-1 FORMATION RM (3 MIST ELIMS)	200.000	Each/HR	STORAGE BATTERIES
126	LEAD OXIDE MILL 1	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
127	LEAD OXIDE MILL 3	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
128	LEAD OXIDE MILL 2	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
129	LEAD OXIDE MILL 4	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
130	A-2 BATTERY ASSEMBLY C (SCIENTIFIC FC 2)	1,100.000	Each/HR	STORAGE BATTERIES
131	A-2 MIXING (SCIEN FC 9) & PASTING (SCIEN FC 2 & 6)	1,100.000	Each/HR	STORAGE BATTERIES
132	A-2 COS & ENVELOPE (CARB FC 1 & SCIEN FC 10)	1,100.000	Each/HR	STORAGE BATTERIES
133	A-2 GRIDCAST (SCIEN FC 7, 2 & 10 & CARB FC 1)	1,100.000	Each/HR	STORAGE BATTERIES
133A	A-2 CONCASTER (CARB FC #1 & SCIENC FC #2)	1,100.000	Each/HR	STORAGE BATTERIES
133B	UNCONTROLLED GRIDCAST MACHINE NO 1	196.000	Each/HR	LB LEAD
133C	UNCONTROLLED GRIDCAST MACHINE NO 2	196.000	Each/HR	LB LEAD
133D	UNCONTROLLED GRIDCAST MACHINE NO 3	196.000	Each/HR	LB LEAD
134	A-2 ASSEMBLY (SCIENTIFIC FC 8)	1,100.000	Each/HR	STORAGE BATTERIES
135	IND LEAD OXIDE RECEIVING TANK (BIN VENT)			
136	A-2 LEAD OXIDE STORAGE SILOS (7) (BIN VENTS)	9.500	Tons/HR	LEAD OXIDE
138	A-2 BATT ASMBLY (FARR CC 3)	1,100.000	Each/HR	STORAGE BATTERIES
139	A-2 BATTERY FORMATION (8 MIST ELIMN)	1,100.000	Each/HR	STORAGE BATTERIES
140	A-2 BATT ASMBLY D (FARR CC 4)	1,100.000	Each/HR	STORAGE BATTERIES
142	IND - BATTERY ASSEMBLY (OSI FC B)	120.000	Each/HR	BATTERY CELLS
143	IND GRIDCAST	120.000	Each/HR	BATTERY CELLS
144A	IND LEAD OXIDE STORAGE SILOS (2) (BIN VENTS)			
146	IND MIX (AAF ROTO) & PASTE (CARB FC D)	120.000	Each/HR	BATTERY CELLS
147	IND BATT ASSEMBLY & DRY CHARGE (CARB FC D)	120.000	Each/HR	BATTERY CELLS
148	IND BATT ASSEMBLY (CARB FC E)	120.000	Each/HR	BATTERY CELLS
149	IND FORMING ROOM & WET CHARGE (5 MIST ELIM)	120.000	Each/HR	BATTERY CELLS
150	IND BATTERY BOOST (4 MIST ELIM)	120.000	Each/HR	BATTERY CELLS
151	A-3 PASTE MIXING (SCIENTIFIC FC #6)	500.000	Each/HR	STORAGE BATTIES
152	A-3 BATTERY ASSEMBLY (SCIENTIFIC CC #1)	500.000	Each/HR	STORAGE BATTERIES
153	A-3 COS & ENVLOPE A (SCIENTIFIC FC #2)	500.000	Each/HR	STORAGE BATTERIES

## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
154	A-3 LEAD OXIDE STORAGE SILOS (3) (BIN VENTS)	27.300	Tons/HR	LEAD OXIDE
156	A-3 GRIDCAST (SCIENTIFIC FC #6)	500.000	Each/HR	STORAGE BATTERIES
156A	A-3 CONCAST (SCIEN FC 6)	500.000	Each/HR	STORAGE BATTERIES
157	A-3 COS & ENVELOPE B (SCIENTIFIC CC #3)	500.000	Each/HR	STORAGE BATTERIES
158	A-3 COS & ENVLOPE D (SCIENTIFIC CC #4)	500.000	Each/HR	STORAGE BATTERIES
159	A-3 COS & STACKING C (SCIENTIFIC FC #5)	500.000	Each/HR	STORAGE BATTERIES
160	LEAD OXIDE MILL 5	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
161	LEAD OXIDE MILL 6	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
162	LEAD OXIDE MILL 7	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
163	LEAD OXIDE MILL 8	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
169	LEAD OXIDE MILL 9	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
170	LEAD OXIDE MILL 10	750.000	CF/HR	NATURAL GAS
		2,600.000	Lbs/HR	LEAD OXIDE
181	S-1 BATTERY ASSMBLY & DRY CHARGE (SCIEN FC #3)	300.000	Each/HR	STORAGE BATTERIES
182	S-1 GRIDCAST (SCIENTIFIC FC #1)	300.000	Each/HR	STORAGE BATTERIES
182A	S-1 CONCAST (SCIENTIFIC FC #1)	300.000	Each/HR	STORAGE BATTERIES
183	S-1 GROUP ASSEMBLY (SCIENTIFIC FC #2)	300.000	Each/HR	STORAGE BATTERIES
184	S-1 MIXING (SCIENTIFIC FC #1) & PASTING (SCIENTIFIC FC #4)	300.000	Each/HR	STORAGE BATTERIES
185	S-1 LEAD OXIDE STORAGE SILOS (3) (BIN VENTS)	15.000	Tons/HR	LEAD OXIDE
186	S-1 BATTERY ACTTN/BOOSTIN (5 MIST ELIM)	300.000	Each/HR	STORAGE BATTERIES
187	S- 1 BATT FORMATION (10 MIST ELIM)	300.000	Each/HR	STORAGE BATTERIES
188	S-1 UNIGY & GEL BATT ASSEM (SCIENTIFIC FC #5)	300.000	Each/HR	STORAGE BATTERIES
189	S-1 GROUP ASSEMBLY (SCIENTIFIC FC #4)	300.000	Each/HR	STORAGE BATTERIES
190	IND BATT ASSEMBLY (FARR FC A)	120.000	Each/HR	BATERIES CALLS
191	A-3- BATTERY FORMATION (13 MIST ELIM)	500.000	Each/HR	STORAGE BATTERIES
192	A-1 BURN & STACK (SCIENTIFIC FC 5)	200.000	Each/HR	STORAGE BATTERIES
193	A-2 GROUP ASSEMBLY 1 (SCIENTIFIC FC 5)	1,100.000	Each/HR	STORAGE BATTERIES
194	A-2 GROUP ASSEMBLY 2 (SCIENTIFIC FC 6)	1,100.000	Each/HR	STORAGE BATTERIES
195	A-2 GROUP ASSEMBLY 3 (SCIENTIFIC FC 7)	1,100.000	Each/HR	STORAGE BATTERIES
196	LEAD OXIDE MILL 11	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
197	LEAD OXIDE MILL 12	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
198	LEAD OXIDE MILL 13	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS



## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
199	LEAD OXIDE MILL 14	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
203	LEAD OXIDE MILL 15	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
204	LEAD OXIDE MILL 16	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
205	LEAD OXIDE MILL 17	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
206	LEAD OXIDE MILL 18	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
207	LEAD OXIDE MILL 19	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
208	LEAD OXIDE MILL 20	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
210	WTP SALT DRYER	0.961	MMBTU/HR	
		961.000	CF/HR	NATURAL GAS
		1,953.000	Lbs/HR	SALT (WET)
211	WTP SALT TRUCK LOADOUT OPERATION	1,953.000	Lbs/HR	SALT (WET)
212	WTP SALT STORAGE SILOS	30,000.000	Lbs/HR	SALT (DRY)
213	MISCELLANEOUS CHEM			
214	SPRAY BOOTH- CENTRAL MAINT PAINT BOOTH			
221	LEAD OXIDE MILL NO. 21	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
222	LEAD OXIDE MILL NO. 22	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
223	LEAD OXIDE MILL NO. 23	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
224	LEAD OXIDE MILL NO. 24	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
225	LEAD OXIDE MILL NO. 25	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
226	LEAD OXIDE MILL NO. 26	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
227	LEAD OXIDE MILL NO. 27	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
228	LEAD OXIDE MILL NO. 28	2,600.000	Lbs/HR	LEAD OXIDE
		750.000	CF/HR	NATURAL GAS
301	S-1A BATT ASSEMBLY ANNEX (SCIENTIFIC FC 6)	300.000	Each/HR	STORAGE BATTERIES
302	S-1A FORMATION ANNEX (3 MIST ELIM)	300.000	Each/HR	STORAGE BATTERIES
303	S-1 SILICON DIOXIDE SILO (1 BIN VENT)			
401	A-4 LEAD OXIDE STORAGE SILOS (9) (BIN VENTS)			
402	A-4 MIXING (SCIEN #6) & PASTING (SCIEN #1)	4.800	MMBTU/HR	



## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
403	A-4 GRIDCASTING (SCIEN FC #2)	10.000	MMBTU/HR	
404	A-4 CONCASTING (SCIEN FC #2)	2.000	MMBTU/HR	
405	A-4 THREE-PROCESS-OPR (SCIEN FC #3 & #4)	0.800	MMBTU/HR	
406	A-4 BATTERY FORMATION (9) (MIST ELIM)			
407	A-4 BATT ASSEMBLY LINES (SCIEN FC #5)			
502	A-2 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)	1,100.000	Each/HR	STORAGE BATTERIES
503	A-2 RED LEAD OXIDE STORAGE SILO (BIN VENT)	10.000	Tons/HR	LEAD OXIDE RED
504	A-1 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)	200.000	Each/HR	STORAGE BATTERIES
505	A-3 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)	500.000	Each/HR	STORAGE BATTERIES
506	IND SMALL PARTS CASTING (FUGITIVE/UNCONTROL)	120.000	Each/HR	BATTERY CELLS
507	S-1 SMALL PART CASTING (FUGITIVE/UNCONT)	300.000	Each/HR	STORAGE BATTERIES
508	A-2 COS/ENVELOPE/CONCAST (SCIEN 10)			
511	A-1 HEAT SEAL BOOTHS #1-4			
512	A-2 HEAT SEAL BOOTHS #1- 8			
513	A-3 HEAT SEAL BOOTHS #1 - 3			
514	S-1 HEAT SEAL BOOTHS #1-3			
515	MOLDING HEAT SEAL BOOTHS A-K: FIBER BEDS OR EQIV APPRVD CTRL			
516	A-4 HEAT SEAL BOOTHS 1 - 5: FIBER BEDS OR EQIV APPRVD CTRL			
601	EMERGENCY GENERATORS			
602	COLD CLEANERS			
603	SMALL PARTS COATING OPERATION	3.510	Lbs/HR	PERCHLOROETHYLENE
604	IND BATTERY TOUCH-UP OPERATION			
605	BATTERY FINISHING			
608	GASOLINE AND DIESEL HANDLING			
C01	FABRIC COLLECTOR: A-1 DRY CHARGE/GRIDCAST/BATT ASSEM (SC #6)			
C01A	HEPA: A-1 DRY CHARGE/GRIDCAST/BATT ASSEM (SCEIN #6)			
C08	FABRIC COLLECTOR: A-1 MIXING/PASTING (SCIEN #1)384			
C08A	HEPA: A-1 MIXING/PASTING (SCIEN #1)			
C09	FABRIC COLLECTOR: A-1 DRY CHARGE (WHEEL 2)			
C12	CYCLONE: OXIDE MILL 1			
C13	FABRIC COLLECTOR: OXIDE MILL 1			
C131	FABRIC COLLECTOR: A-2 MIXING & PASTING (SCIEN #9)			
C131A	HEPA: A-2 MIXING & PASTING (SCIEN #9)			
C135	BIN VENT: IND LEAD OXIDE RECEIV TANK			
C135A	HEPA FILTER: IND LEAD OXIDE RECEIV TANK			



## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C13A	HEPA: OXIDE MILL NO. 1 (OXIDE)		
C14	CYCLONE: OXIDE MILL 2		
C15	FABRIC COLLECTOR: OXIDE MILL 2		
C151	FABRIC COLLECTOR: A-3 PASTING/MIX/CASTING (SCIEN #6)		
C151A	HEPA: A-3 MIX/PASTE/CASTING (SCIEN #6)		
C15A	HEPA: OXIDE MILL NO.2 (OXIDE)		
C17	FABRIC CLTR: A-2 COS&ENVEL/CONCAST (CARB 1)		
C18	FABRIC CLTR: A-2 ASSEMBLY (SCIENTIFIC 8)		
C18A	HEPA: A-2 ASSEMBLY (SCIENTIFIC 8)		
C19	BIN VENTS(7): A-2 OXIDE BINS		
C19A	HEPA(7): A-2 LEAD OXIDE BINS		
C203	FABRIC COLLECTOR: OXIDE MILL 15		
C203A	CYCLONE: OXIDE MILL NO. 15		
C203B	HEPA: OXIDE MILL NO. 15		
C204	FABRIC COLLECTOR: OXIDE MILL 16		
C204A	CYCLONE: OXIDE MILL NO. 16		
C204B	HEPA: OXIDE MILL NO. 16		
C205A	CYCLONE: OXIDE MILL 17		
C205B	FABRIC COLLECTOR: OXIDE MILL 17		
C205C	HEPA: OXIDE MILL 17		
C206A	CYCLONE: OXIDE MILL 18		
C206B	FABRIC COLLECTOR: OXIDE MILL 18		
C206C	HEPA: OXIDE MILL 18		
C207A	CYCLONE: LEAD OXIDE MILL 19		
C207B	FABRIC COLLECTOR: LEAD OXIDE MILL 19		
C207C	HEPA: OXIDE MILL 19		
C208A	CYCLONE: LEAD OXIDE MILL 20		
C208B	FABRIC COLLECTOR: OXIDE MILL 20		
C208C	HEPA: OXIDE MILL 20		
C21	SCRUBBERS: A-2 BATTERY FORMATION		
C210	FABRIC COLLECTOR: WTP SALT DRYER (SLY)		
C211	FABRIC COLLECTOR: WTP SALT TRUCK LOADOUT (CYCLONAIRE)		
C212	BIN VENT: WTP SALT SILO (CYCLONAIRE)		
C214	DRY FILTERS: CENTRAL MAINT PAINT BOOTH		
C22	FABRIC COLLECTOR: A-2 BATT ASS/GRIDCAST/PASTE (SCEINC 2)		
C221A	CYCLONE: MILL NO. 21		
C221B	FABRIC COLLECTOR: MILL NO. 21		
C221C	HEPA: MILL NO. 21		



## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C222A	CYCLONE: MILL NO. 22		
C222B	FABRIC COLLECTOR: MILL NO. 22		
C222C	HEPA: MILL NO. 22		
C223A	CYCLONE: OXIDE MILL NO. 23		
C223B	FABRIC COLLECTOR: OXIDE MILL NO. 23		
C223C	HEPA: OXIDE MILL NO. 23		
C224A	CYCLONE: OXIDE MILL NO. 24		
C224B	FABRIC COLLECTOR: OXIDE MILL NO. 24		
C224C	HEPA: OXIDE MILL NO. 24		
C225A	CYCLONE: OXIDE MILL NO. 25		
C225B	FABRIC COLLECTOR: OXIDE MILL NO. 25		
C225C	HEPA: OXIDE MILL NO. 25		
C226A	CYCLONE: OXIDE MILL NO.26		
C226B	FABRIC COLLECTOR: OXIDE MILL NO. 26		
C226C	HEPA: OXIDE MILL NO. 26		
C227A	CYCLONE: OXIDE MILL NO. 27		
C227B	FABRIC COLLECTOR: OXIDE MILL NO. 27		
C227C	HEPA: OXIDE MILL NO. 27		
C228A	CYCLONE: OXIDE MILL NO. 28		
C228B	FABRIC COLLECTOR: OXIDE MILL NO. 28		
C228C	HEPA: OXIDE MILL NO. 28		
C22A	HEPA: A-2 BATT ASSEMBLY/GRIDCAST/PASTE		
C24	CYCLONE: OXIDE MILL 3		
C25	FABRIC COLLECTOR: OXIDE MILL 3		
C25A	HEPA: OXIDE MILL NO. 3 (OXIDE)		
C26A	BIN VENTS: IND LEAD OXIDE BINS (2)		
C26AA	HEPA: IND LEAD OXIDE BINS		
C28	ROTOCLONE: IND MIXING (AAF)		
C29	FABRIC COLLECT: IND ASSEM/DRY CHARGE/TAKE-OFF (CARB D)		
C30	FABRIC COLLECTOR: IND BATT ASSEMBLE (CARB E)		
C301	FABRIC COLLECTOR: S-1A BATT ASSEMBLY (SCIEN FC 6)		
C301A	HEPA: S-1A BATT ASSEMBLY (SCIEN FC 6)		
C302	MIST ELIMS (3): S-1A FORMATION		
C303	BIN VENT: S-1 SILICON DIOXIDE SILO		
C31	MIST ELIMS (5): IND BOOST (DUALL)		
C33	MIST ELIMS (4): IND BATT BOOST (DUALL)		
C34	CYCLONE: OXIDE MILL 4		
C35	FABRIC COLLECTOR: OXIDE MILL 4		
C35A	HEPA: OXIDE MILL NO. 4 (OXIDE)		



## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C36A	BIN VENTS: A-1 LEAD OXIDE BINS (2)		
C36B	HEPA FILTER: A-1 LEAD OXIDE SILOS		
C38	CART COLLECTOR: A-2 BATT ASSEMBLY (FARR 3)		
C38A	HEPA: A-2 ASSEMBLY (FARR 3) & RED LEAD OXIDE SILO		
C401	BIN VENTS: A-4 LEAD OXIDE STORAGE SILOS (ASS)		
C401A	HEPA: A-4 LEAD OXIDE STORAGE SILOS (ASS)		
C402	FABRIC COLLECTOR: A-4 PASTING OP (SCIEN FC #1)		
C402A	HEPA: A-4 PASTING OPERATION (SCIEN FC #1)		
C403	FABRIC COLLECTOR: A-4 GRID/CONCAST (SCIEN FC #2)		
C403A	HEPA: A-4 GRID/CONCASTING (SCIEN FC #2)		
C405	FABRIC COLLECTOR: A-4 THREE-PROCESS-OPR (SCIEN FC #3)		
C405A	HEPA: A-4 THREE-PROCESS-OPR (SCIEN FC #3)		
C406	ELIMINATORS (9): A-4 BATTERY FORMATION		
C407	FABRIC COLLECTOR: A-4 BATT ASSEMBLY (SCIEN FC #5)		
C407A	HEPA: A-4 BATT ASSEMBLY (SCIEN FC #5)		
C41	CART COLLECTOR: A-1 PASTING/DRY CHARGE/ASSEMBLY (FARR 4)		
C415	FABRIC COLLECTOR: A-4 THREE-PROCESS-OPR (SCIEN FC #4)		
C415A	HEPA: A-4 THREE-PROCESS-OPR (SCIEN FC #4)		
C41A	HEPA: A-1 PASTING/DRY CHARGE/ASSEMBLY (FARR CC #4)		
C42	FABRIC COLLECTOR: IND BATT ASSEMBLY (FARR)		
C42A	HEPA: IND BATT ASSEMBLY (FARR)		
C503	FABRIC COLLECTOR: A-2 RED LEAD OXIDE SILO		
C508	FABRIC COLLECTOR: A-2 COS/ENVELOP/GRIDCAST (SCIEN #10)		
C508A	HEPA: A-2 COS/ENVELOP/GRIDCASTING (SCIEN #10)		
C515	FIBER BEDS OR APPROVED EQUIV: MOLDING HEAT SEALERS		
C516	FIBER BEDS OR APPROVED EQUIV: A-4 HEAT SEAL (BATT ASSEM)		
C52	CART COLLECTOR: A-3 BATT ASSEMBLY (SCIEN 1)		
C52A	HEPA: A-3 BATT ASSEMBLY (SCIEN #1)		
C53	FABRIC COLLECTOR: A-3 COS/ENVELOP (SCIEN 2)		
C53A	HEPA: A-3 COS/ENVELOPE (SCIEN #2)		
C54	BIN VENTS: A-3 LEAD OXIDE BINS		
C54A	HEPA FILTER: A-3 LEAD OXIDE SILOS		
C56	MIST ELIM: A-1 FORMATION NORTH		
C57	MIST ELIM: A-1 FORMATION SOUTH		



## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C58	CART COLLECTOR: A-2 BATT ASSEMBLY (FARR 4)		
C58A	HEPA: A-2 BATT ASSEMBLY (FARR#4)		
C59	CART COLLECTOR: A-3 COS/ENVELOPE (SCEIN 3)		
C59A	HEPA: COS/ENVELOPING (SCIENTIFIC #3)		
C60	FABRIC COLLECTOR: OXIDE MILL 5		
C603	ADSORPTION: SMALL PARTS COATING		
C603A	DRY FILTERS: SMALL PARTS COATING		
C604	DRY FILTERS: IND BATT TOUCH-UP		
C60A	CYCLONE: OXIDE MILL NO. 5		
C60B	HEPA: OXIDE MILL NO. 5 (OXIDE)		
C61	FABRIC COLLECTOR: OXIDE MILL 6		
C61A	CYCLONE: OXIDE MILL NO. 6		
C61B	HEPA: OXIDE MILL NO. 6 (OXIDE)		
C62	FABRIC COLLECTOR: OXIDE MILL 7		
C62A	CYCLONE: OXIDE MILL NO. 7		
C62B	HEPA: OXIDE MILL NO. 7 (OXIDE)		
C63	FABRIC COLLECTOR: OXIDE MILL 8		
C63A	CYCLONE: OXIDE MILL NO. 8		
C63B	HEPA: OXIDE MILL NO. 8 (OXIDE)		
C64	CART COLLECTOR: A-3 COS/STACKING (SCEIN 5)		
C64A	HEPA: A-3 COS & STACKING (SCIENTIFIC #5)		
C65	MIST ELIM: A-1 FORMATION (DUALL 3)		
C69	FABRIC COLLECTOR: OXIDE MILL 9		
C69A	CYCLONE: OXIDE MILL NO. 9		
C69B	HEPA: OXIDE MILL NO. 9		
C70	FABRIC COLLECTOR: OXIDE MILL 10		
C70A	CYCLONE: OXIDE MILL NO. 10		
C70B	HEPA: OXIDE MILL NO. 10 (OXIDE)		
C78	FABRIC COLLECTOR: A-3 BATT ASSEM/PASTE (SCIEN 4)608		
C78A	HEPA: A-3 BATT ASSEMBLY/PASTE (SCIEN #4)		
C81	CART COLLECTOR: S-1 ASSEMBLY/DRY CHARGE (SCEIN)		
C81A	HEPA: S-1 ASSEMBLY/DRY CHARGE (SCIEN)		
C83	FABRIC COLLECTOR: S-1 GROUP ASSEMB/CONCAST (SCIEN #2)		
C83A	HEPA: S-1 GROUP ASSEMBLY/CONCAST (SCIENCE 608)		
C841	FABRIC CLTR: S-1 ASSMBL/GRID CAST/CONCAST/PASTE (SCI #1)		
C841A	HEPA: ASSMBL/GRISCAST/CONCAST/PASTE (SCI #1)		
C85	BIN VENTS (3): S-1 LEAD OXIDE SILOS		

## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C85A	HEPA FILTER: S-1 LEAD OXIDE SILOS		
C86	MIST ELIMS (3): S-1 BATTERY ACTIVATION		
C87	MIST ELIMS (12): S-1 PLATE FORMATION		
C88	FABRIC COLLECTOR: S-1 UNIGY/GEL ASSEMBLY (SCIEN 736)		
C88A	HEPA: S-1 UNIGY/GEL ASSEMBLY (SCIENCE 736)		
C89	FABRIC COLLECTOR: S-1 ASSEMBLY (SCIEN #4)		
C89A	HEPA: S-1 ASSEMBLY (SCIEN #4)		
C90	FABRIC COLLECTOR: IND BATT ASSEMBLY (OSI)		
C91	MIST ELIMS (11): A-3 FORMATION		
C92	FABRIC COLLECTOR: A-1 BURN & STACK/GRIDCAST (SCIEN 5)		
C92A	HEPA: A-1 STACK & BURN/GRIDCAST		
C93	FABRIC COLLECTOR: A-2 GRP ASSEMBLY 1 (SCIENTIFIC 5)		
C93A	HEPA: A-2 GRP ASS #1 (SCIEN #5)		
C94	FABRIC COLLECTOR: A-2 GA 2/GRIDCAST/PASTE (SCIEN FC 6)		
C94A	HEPA: A-2 GR ASSEM #2/GRIDCAST/PASTE (SCIEN #6)		
C95	FABRIC COLLECTOR: A-2 GRP ASSEMBLY 3 (SCIENTIFIC 7)		
C95A	HEPA: A-2 GRP ASSEMBLY 3 (SCIEN 7)		
C96	FABRIC COLLECTOR: OXIDE MILL 11		
C96A	CYCLONE: OXIDE MILL 11		
C96B	HEPA: OXIDE MILL 11		
C97	FABRIC COLLECTOR: OXIDE MILL 12		
C97A	CYCLONE: OXIDE MILL NO. 12		
C97B	HEPA: OXIDE MILL NO. 12		
C98	FABRIC COLLECTOR: OXIDE MILL 13		
C98A	CYCLONE: OXIDE MILL NO. 13		
C98B	HEPA: OXIDE MILL NO. 13		
C99	FABRIC COLLECTOR: OXIDE MILL 14		
C99A	CYCLONE: OXIDE MILL NO. 14		
C99B	HEPA: OXIDE MILL NO. 14		
FM001	PROPANE TANK FARM		
FM002	NATURAL GAS PIPELINE		
S01	STACK: DRY CHARGE/GRIDCAST/BATT ASSEM (SCIEN #6)		
S07	STACK: A-1 MIXING & PASTING (SCIEN #1)		
S08	STACK: A-1 DRY CHARGE (WHEEL 2)		
S11	STACK: OXIDE MILL 1		
S12	STACK: OXIDE MILL 2		
S131	STACK: A-2 MIXING & PASTING (SCIEN #9)		

## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S135	STACK: IND LEAD OXIDE RECEIV TANK		
S14	STACK: A-2 COS&ENVEL/CONCAST (CARB 1)		
S15	STACK: A-2 ASSEMBLY (SCIENTIFIC 8)		
S151	STACK: A-3 PASTING/MIX/CASTING (SCIENTIFIC #6)		
S16	STACK (7): A-2 LEAD OXIDE		
S18	STACKS: A-2 BATTERY FORMATION		
S19	STACK: A-2 ASSBLY/MIX/PASTE/GRIDCAST (SCIEN 2)		
S203	STACK: OXIDE MILL 15		
S204	STACK: OXIDE MILL 16		
S205	STACK: OXIDE MILL 17		
S206	STACK: OXIDE MILL 18		
S207	STACK: OXIDE MILL 19		
S208	STACK: OXIDE MILL 20		
S21	STACK: OXIDE MILL 3		
S210	STACK: WTP SALT DRYER (SLY FC)		
S211	STACK: WTP SALT TRUCK LOADOUT (CYCLONAIRE)		
S212	STACK: WTP SALT STORAGE SILOS (CYCLONAIRE)		
S214	STACK: CENTRAL MAINT PAINT BOOTH		
S221	STACK: OXIDE MILL NO. 21		
S222	STACK: OXIDE MILL NO. 22		
S223	STACK: OXIDE MILL NO. 23		
S224	STACK: OXIDE MILL NO. 24		
S225	STACK: OXIDE MILL NO. 25		
S226	STACK: OXIDE MILL NO. 26		
S227	STACK: OXIDE MILL NO. 27		
S228	STACK: OXIDE MILL NO. 28		
S22A	STACKS: IND LEAD OXIDE BINS		
S24	STACK: IND MIXING (ROTOCLONE)		
S25	STACK: IND BATT ASEM/DRY CHARGE/TAKE-OFF (CARB D)		
S26	STACK: IND BATT ASSEM (CARB E)		
S27	STACKS (7): IND FORMATION		
S29	STACKS (4): IND- BATTERY BOOST		
S30	STACK: OXIDE MILL 4		
S301	STACK: S-1A BATT ASSEMBLY (SCIEN FC 6)		
S302	STACK: S-1A FORMATION		
S303	STACK: S-1 SILICON DIOXIDE SILO		
S32A	STACKS (2): A-1 LEAD OXIDE BINS (VENTS)		
S33	STACK: A-2 ASSEMBLY (FARR 3)		
S35	STACK: A-1 SMALL PARTS CASTING		

## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S36B	UNCONTROLLED GRIDCAST MACHINE NO 1 STACK		
S36C	UNCONTROLLED GRIDCAST MACHINE NO 2 STACK		
S36D	UNCONTROLLED GRIDCAST MACHINE NO 3 STACK		
S37	STACK: A-1 DRY CHARGE/ASSEMBLY/PASTING (FARR 4)		
S38	STACKS (10): IND- GRID/SMALL PARTS CASTING		
S40	STACK: A-3 COS & ENVELOPE (SCIEN FC 3)		
S401	STACKS: A-4 LEAD OXIDE STORAGE SILOS (ASS)		
S402	STACK: A-4 PASTING OPERATION (SCIEN FC #1)		
S403	STACK: A-4 GRID/CONCAST (SCIEN FC #2)		
S405	STACK: A-4 THREE-PROCESS-OPR (SCIEN FC #3)		
S406	STACK: A-4 BATTERY FORMATION (ELIM)		
S407	STACK: A-4 BATTERY ASSEMBLY (SCIEN FC #5)		
S415	STACK: A-4 THREE-PROCESS-OPR (SCIEN FC #4)		
S42	STACK: IND BATT ASSEMBLY (FARR)		
S502	STACK: A-2 SMALL PARTS CASTING		
S508	STACK: A-2 COS/ENVELOP/GRIDCASTING (SCIEN #10)		
S511	STACK: A-1 HEAT SEAL		
S512	STACKS: A-2 HEAT SEAL		
S513	STACKS: A-3 HEAT SEAL		
S514	STACKS: S-1 HEAT SEAL		
S515	STACK: MOLDING HEAT SEALING OPS		
S516	STACKS: A-4 HEAT SEALING (BATT ASSEM)		
S52	STACK: A-3 BATT ASSEMBLY (SCIEN FC 1)		
S53	STACK: A-3 COS & ENVELOPE (SCIEN FC 2)		
S54	STACK: A-3 LEAD OXIDE BINS		
S56	STACK: A-1 FORMATION NORTH		
S57	STACK: A-1 FORMATION SOUTH		
S58	STACK: A-2 ASSEMBLY/RED LEAD (FARR 4)		
S59	STACKS (10): A-3 GRID/SMALL PARTS CASTING		
S59A	STACKS: A3 CONCASTING		
S60	STACK: OXIDE MILL 5		
S601	STACKS: EMERGENCY GENERATORS (11)		
S603	STACK: SMALL PARTS COATING		
S604	STACK: IND BATT TOUCH-UP		
S61	STACK: OXIDE MILL 6		
S62	STACK: OXIDE MILL 7		
S63	STACK: OXIDE MILL 8		
S66	STACK: A-3 STK & COS (SCIEN FC 5)		

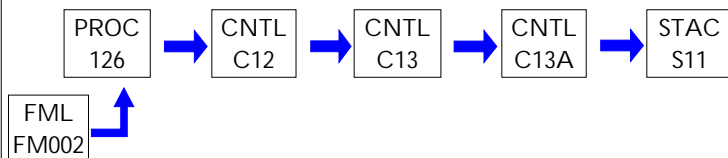
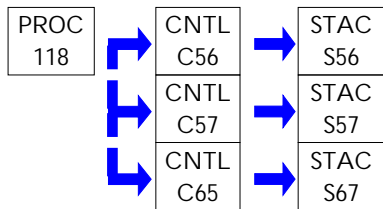
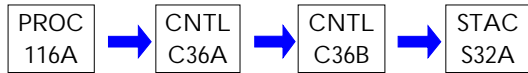
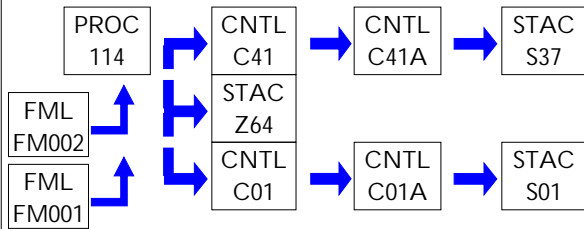
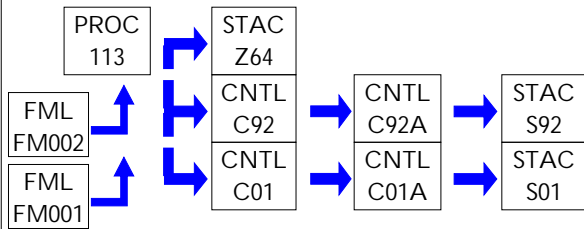
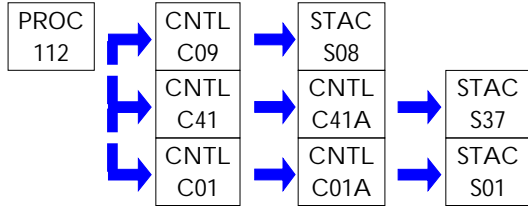
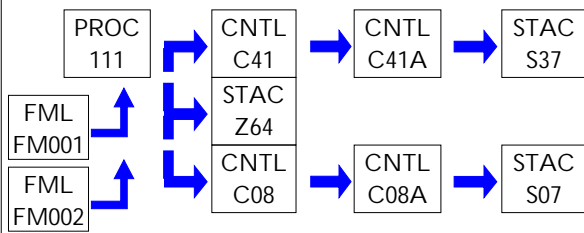


## SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S67	STACK: A-1 FORMATION 3		
S69	STACK: OXIDE MILL 9		
S70	STACK: OXIDE MILL 10		
S78	STACK: A-3 ASSEMBLY/PASTE (SCIEN 4)		
S81	STACK: S-1 ASSEMBLY/DRY CHARGE (SCIENTIFIC)		
S82E	STACK: S-1 GRID/SMALL PARTS CASTING EAST ST		
S83	STACK: S-1 GROUP ASSEMBLY/CONCAST (SCIEN #2)		
S841	STACK: ASSMBL/GRIDCAST/CONCAST/PASTE (SCI #1)		
S85	STACKS(3): S-1 LEAD OXIDE BINS		
S86	STACKS(3): S-1 BATT ACTIVATION		
S87	STACKS(6): S-1 FORMATION		
S88	STACK: S-1 UNIGY/GEL ASSBLY (SCIEN 736)		
S89E	STACK: S-1 ASSEMBLY EAST ST (SCIENT #4)		
S89W	STACK: S-1 ASSEMBLY WEST ST (SCIENT 736)		
S90	STACK: IND BATT ASSEMBLY (OSI)		
S91	STACKS (11): A-3 FORMATION		
S92	STACK: A-1 STK & BURN/GRIDCAST (SCIENTIFIC 5)		
S93	STACK: A-2 GA 1 (SCIENTIFIC FC 5)		
S94	STACK: A-2 GA 2/PASTING/GRIDCAST (SCIEN 6)		
S95	STACK: A-2 GA 3 (SCIENTIFIC 7)		
S96	STACK: OXIDE MILL 11		
S97	STACK: OXIDE MILL 12		
S98	STACK: OXIDE MILL 13		
S99	STACK: OXIDE MILL 14		
Z213	FUGITIVE : KEROSENE CLEANING		
Z400	FUGITIVE: A-4 MISCELLANEOUS COMBUSTION		
Z602	FUGITIVE: COLD CLEANERS & PART WASHERS		
Z605	FUGITIVE: BATTERY FINISHING		
Z608	FUGITIVE EMISSIONS		
Z64	FUGITIVE: A-1 PROCESS & HEAT		
Z65	FUGITIVE: IND- PROCESS & HEAT		
Z66	FUGITIVE: A-2 PROCESS & HEAT		
Z67	FUGITIVE: A-3 PROCESS & HEAT		
Z80	FUGITIVE: S-1 PROCESS & HEAT		

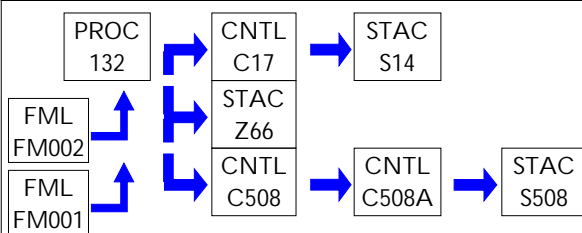
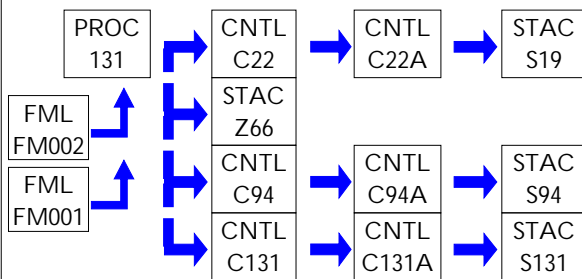
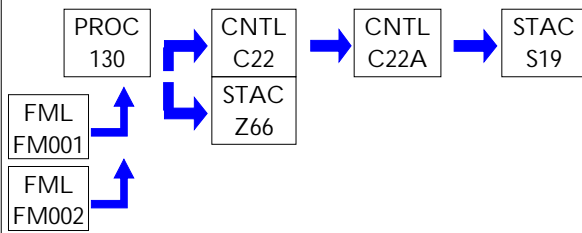
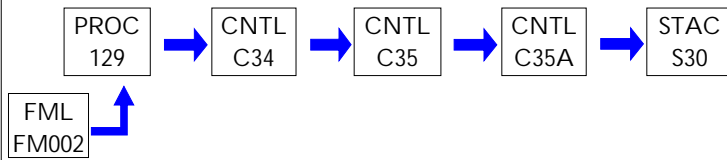
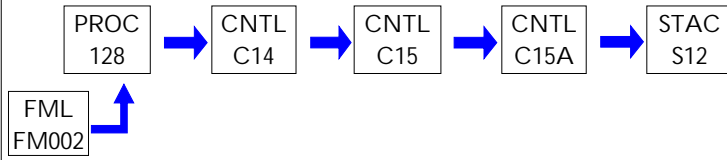
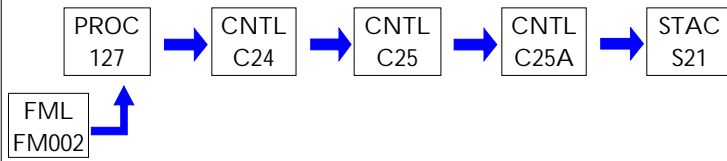
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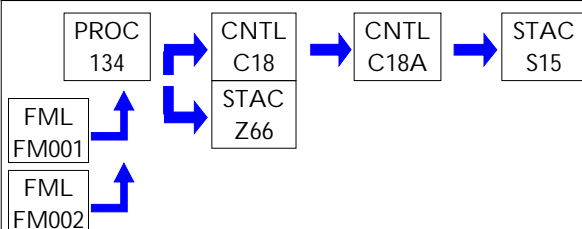
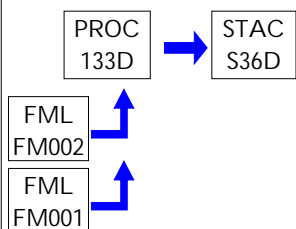
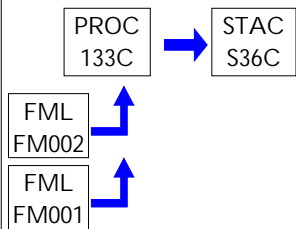
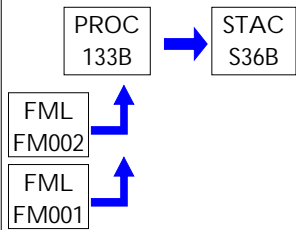
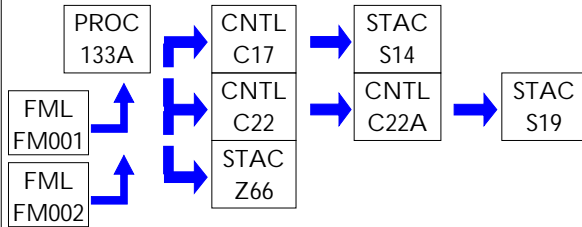
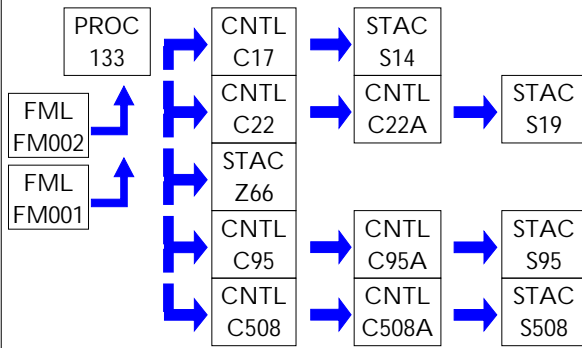




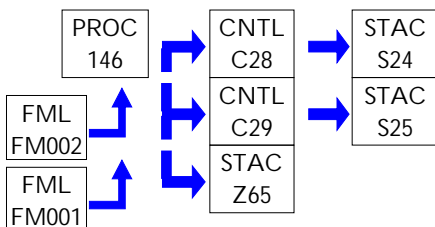
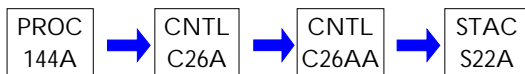
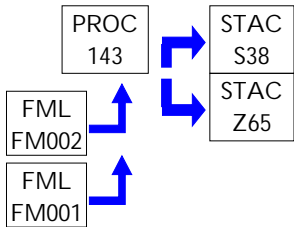
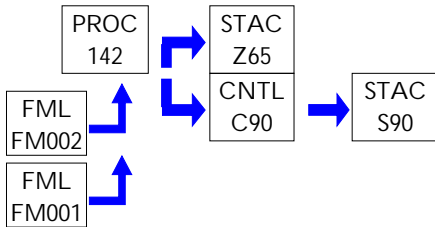
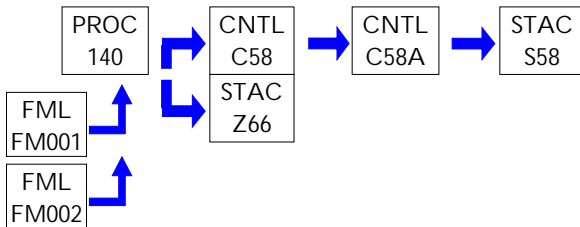
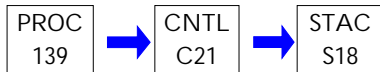
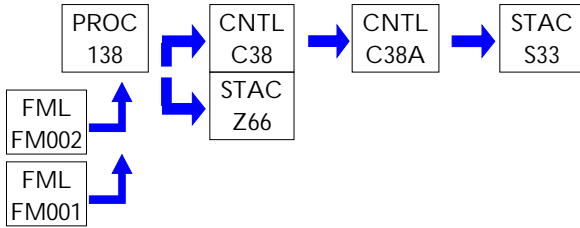
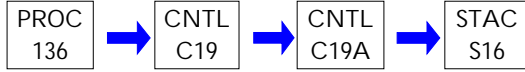
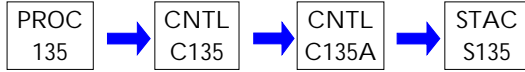
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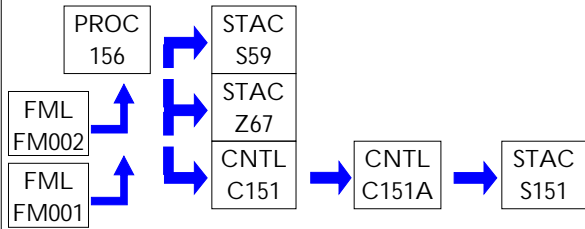
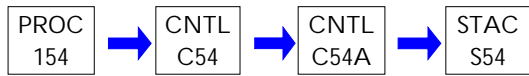
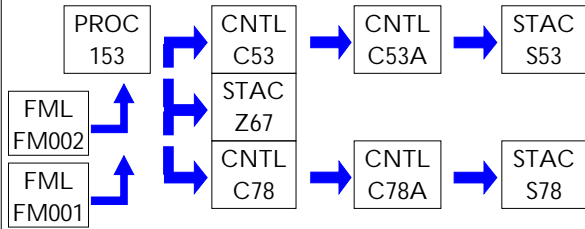
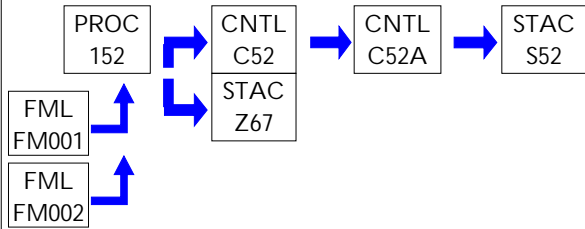
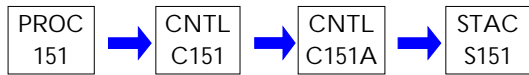
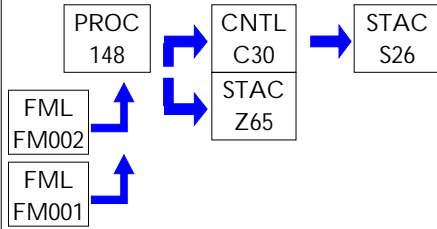
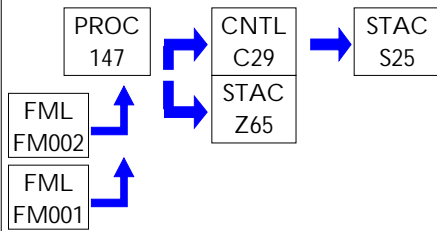
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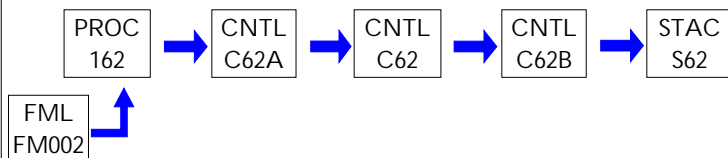
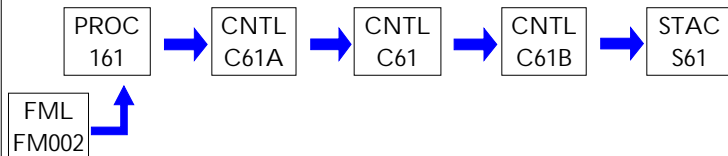
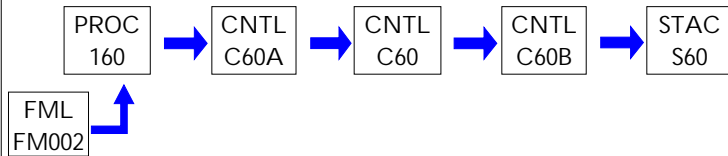
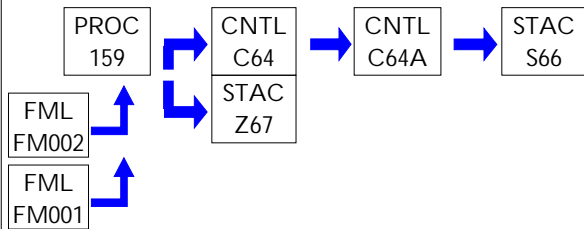
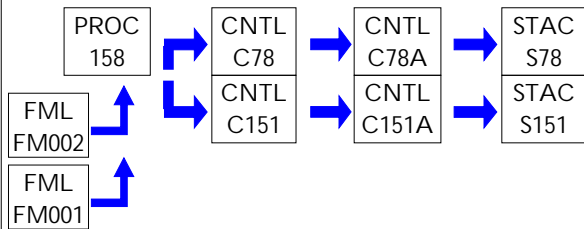
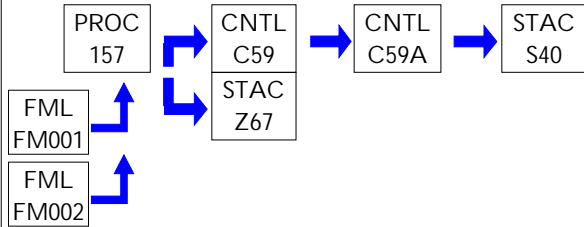
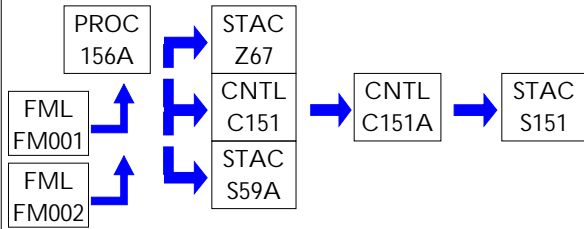
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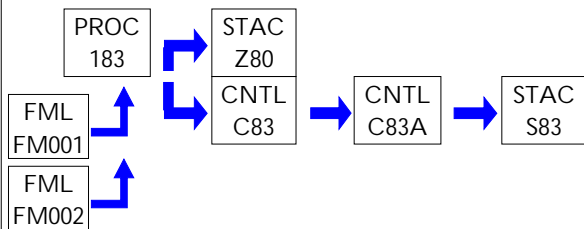
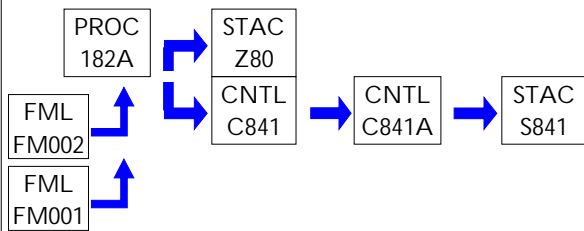
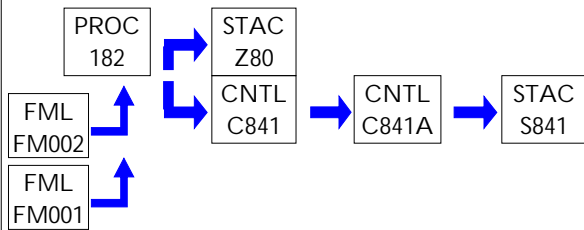
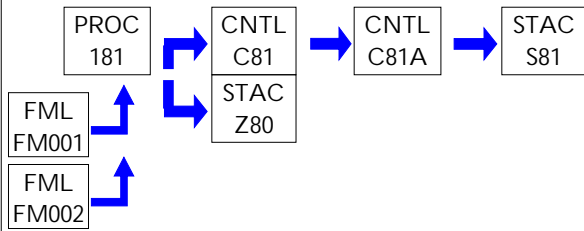
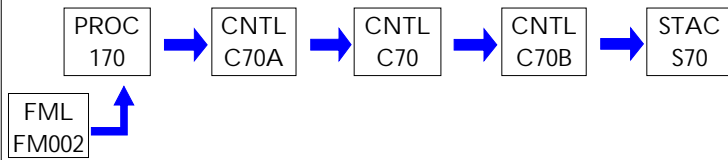
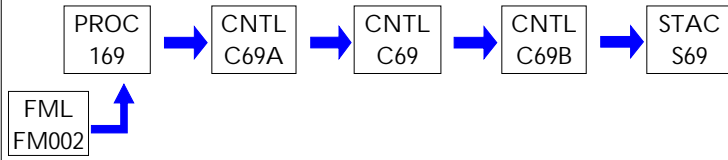
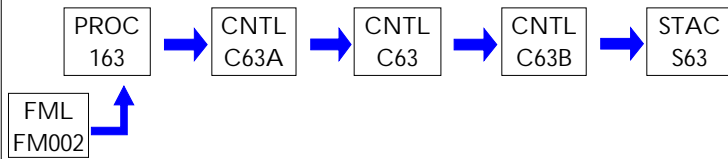
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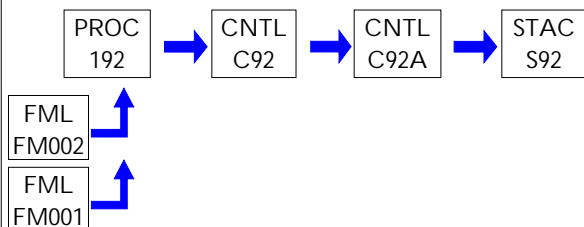
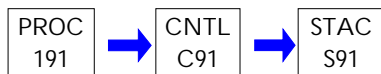
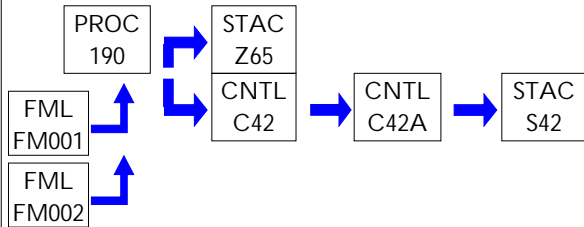
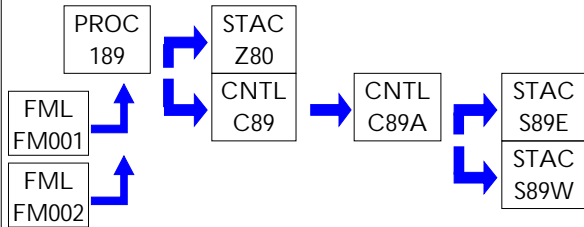
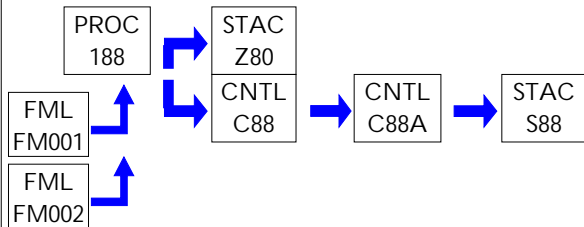
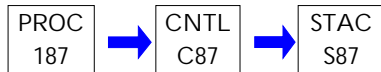
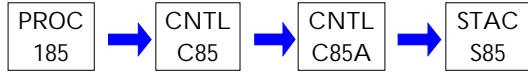
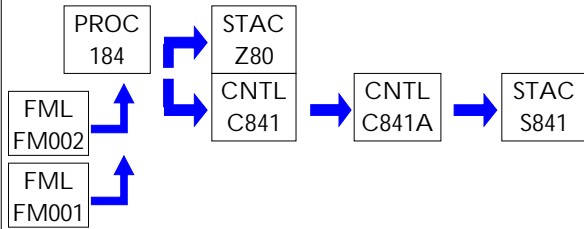
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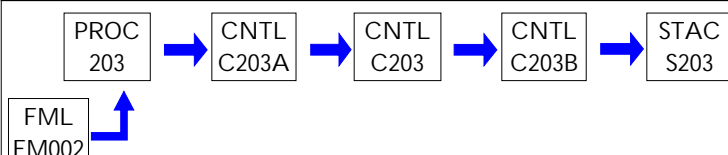
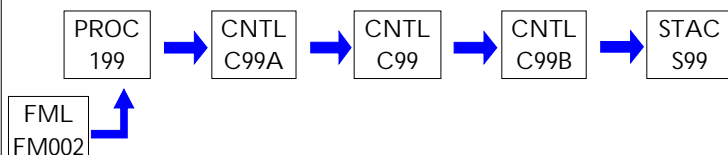
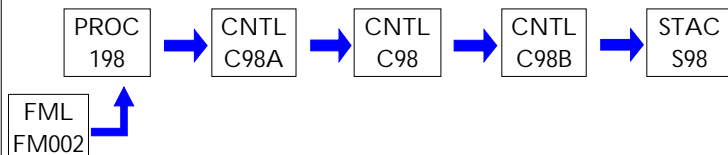
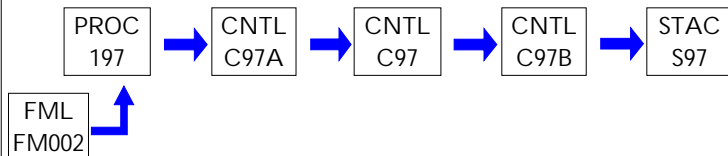
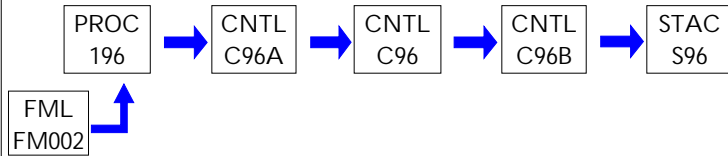
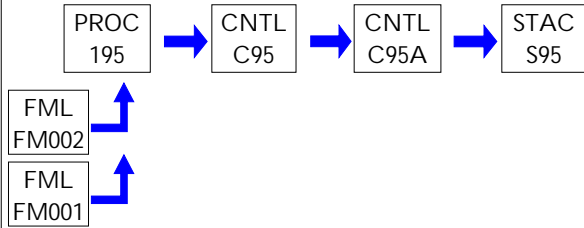
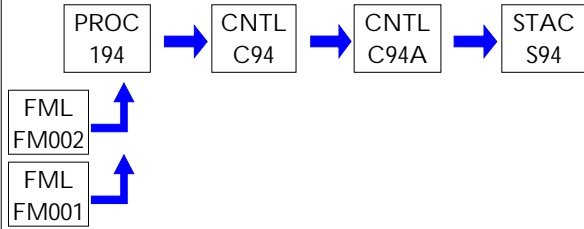
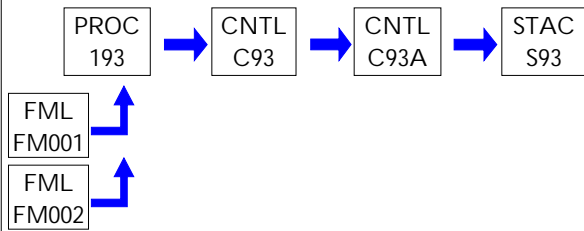
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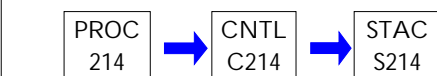
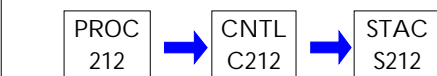
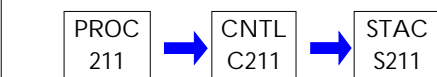
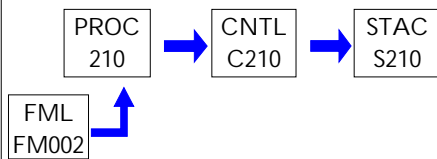
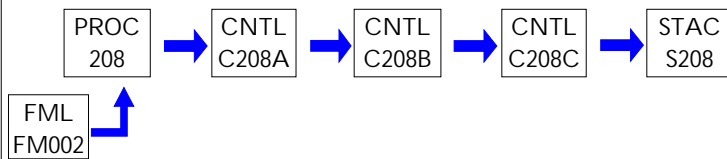
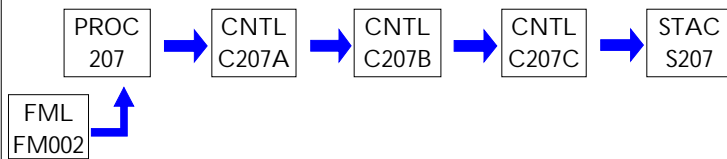
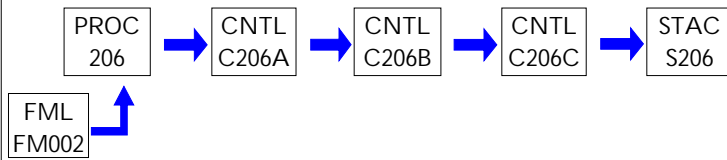
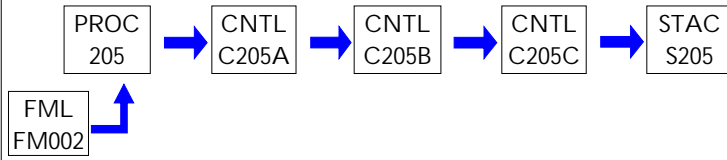
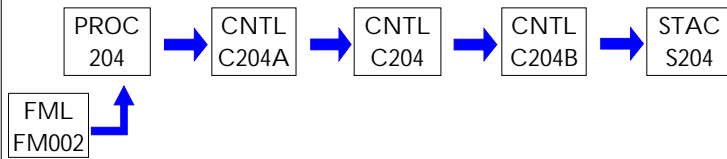


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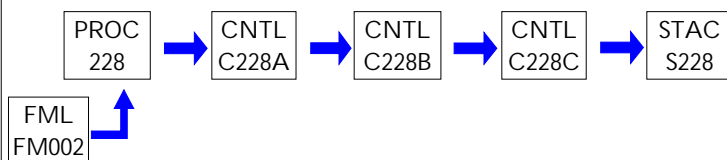
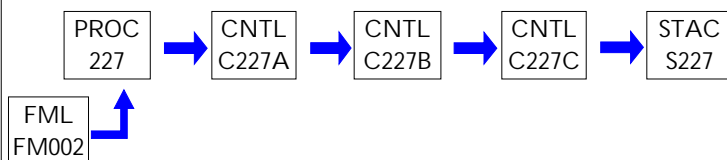
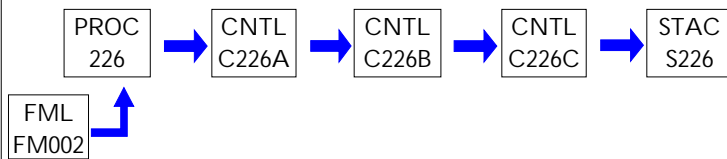
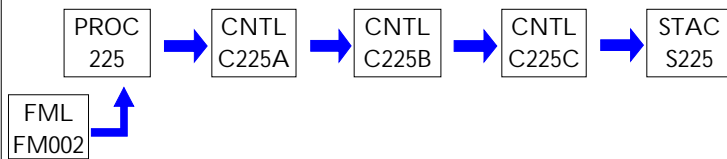
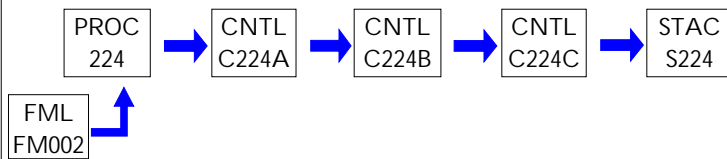
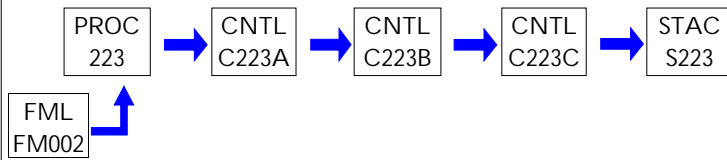
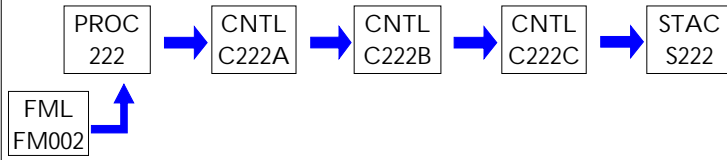
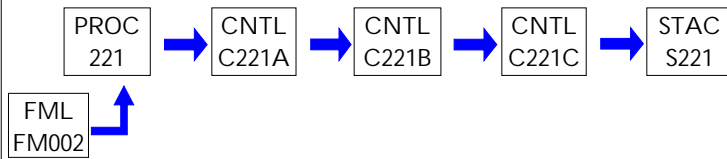




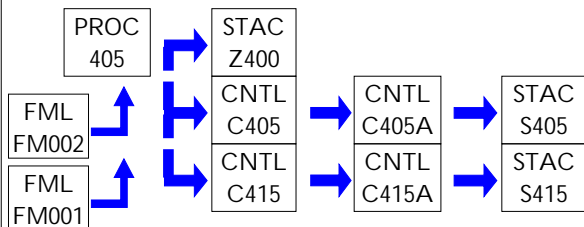
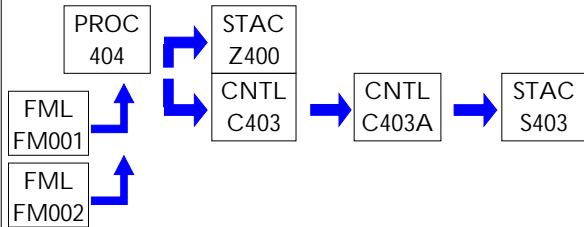
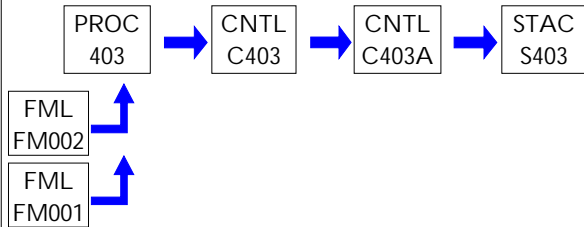
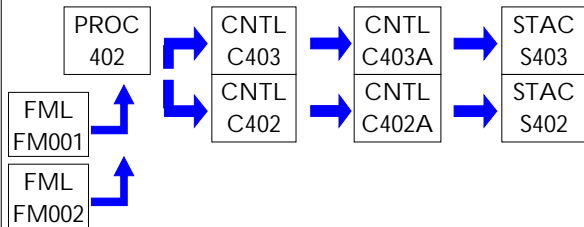
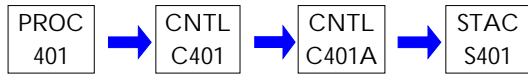
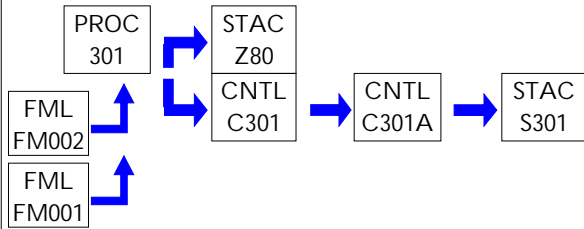
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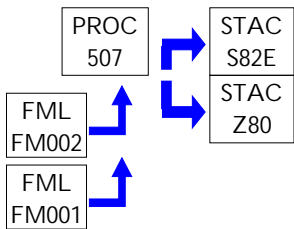
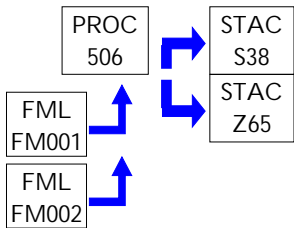
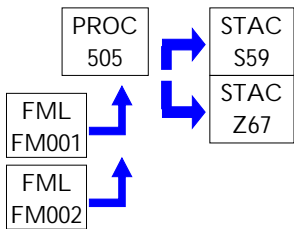
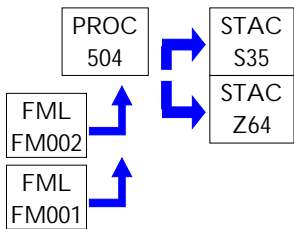
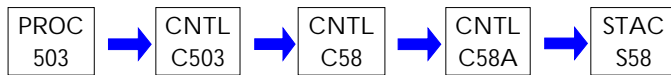
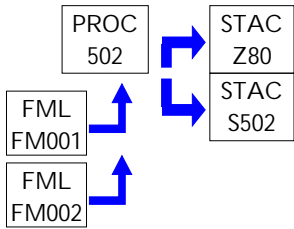
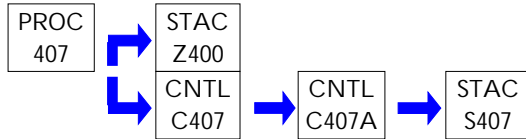
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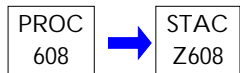
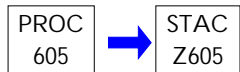
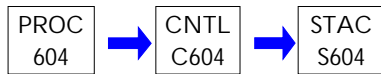
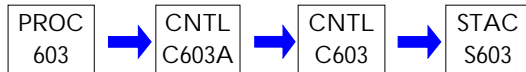
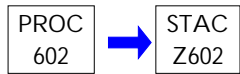
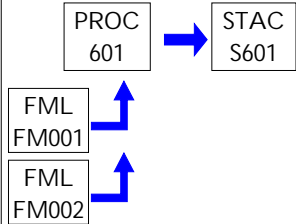
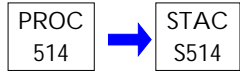
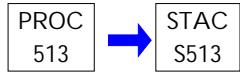
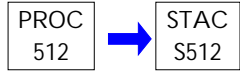
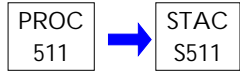
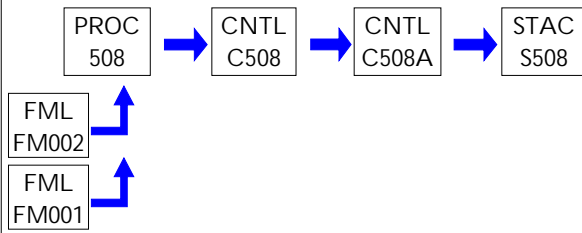
# PERMIT MAPS



# PERMIT MAPS



# PERMIT MAPS



## SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

### Definitions

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.512(c)(4)]

### Property Rights

This permit does not convey property rights of any sort, or any exclusive privileges.

#003 [25 Pa. Code § 127.446(a) and (c)]

### Permit Expiration

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#004 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]

### Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#005 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

### Transfer of Ownership or Operational Control

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

## SECTION B. General Title V Requirements

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#006 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

### Inspection and Entry

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

### Compliance Requirements

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

## SECTION B. General Title V Requirements

#008 [25 Pa. Code § 127.512(c)(2)]

### Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

### Duty to Provide Information

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#010 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

### Reopening and Revising the Title V Permit for Cause

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#011 [25 Pa. Code § 127.543]

### Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.



## SECTION B. General Title V Requirements

#012 [25 Pa. Code § 127.541]

### Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541.

#013 [25 Pa. Code §§ 121.1 & 127.462]

### Minor Operating Permit Modifications

(a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(b) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to an operational flexibility change authorized by 25 Pa. Code § 127.462.

#014 [25 Pa. Code § 127.450]

### Administrative Operating Permit Amendments

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code § 127.450(a), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.

(b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

#015 [25 Pa. Code § 127.512(b)]

### Severability Clause

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

### Fee Payment

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

## SECTION B. General Title V Requirements

(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#017 [25 Pa. Code §§ 127.14(b) & 127.449]

### Authorization for De Minimis Emission Increases

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less

**SECTION B. General Title V Requirements**

than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#018 [25 Pa. Code §§ 127.11a & 127.215]

**Reactivation of Sources**

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

## SECTION B. General Title V Requirements

#019 [25 Pa. Code §§ 121.9 & 127.216]

### Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

### Submissions

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager  
PA Department of Environmental Protection  
(At the address given on the permit transmittal letter,  
or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Office of Air Enforcement and Compliance Assistance (3AP20)  
United States Environmental Protection Agency  
Region 3  
1650 Arch Street  
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#021 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

### Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#022 [25 Pa. Code §§ 127.511 & Chapter 135]

### Recordkeeping Requirements

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:

**SECTION B. General Title V Requirements**

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#023 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

**Reporting Requirements**

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #020(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#024 [25 Pa. Code § 127.513]

**Compliance Certification**

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This

## SECTION B. General Title V Requirements

certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance or, of the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #020 of this section.

#025 [25 Pa. Code § 127.3]

### Operational Flexibility

(a) The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

(b) Unless precluded by the Clean Air Act or the regulations adopted thereunder, the permit shield authorized under 25 Pa. Code § 127.516 shall extend to operational flexibility changes made at this Title V facility pursuant to this permit condition and other applicable operational flexibility terms and conditions of this permit.

#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

### Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,

**SECTION B. General Title V Requirements**

(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#027 [25 Pa. Code § 127.512(e)]

**Approved Economic Incentives and Emission Trading Programs**

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#028 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

**Permit Shield**

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

## SECTION B. General Title V Requirements

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

(d) The permit shield authorized under § 127.516 is in effect for the permit terms and conditions in this Title V permit, including administrative operating permit amendments and minor operating permit modifications.



## SECTION C. Site Level Requirements

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.1]

##### Prohibition of certain fugitive emissions

a. No person may permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

1. Construction or demolition of buildings or structures.
2. Grading, paving and maintenance of roads and streets.
3. Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
4. Clearing of land.
5. Stockpiling of materials.

b. Sources and classes of sources other than those identified in paragraphs (a) - (e), for which the operator has obtained a determination from the Department in accordance with 25 Pa. Code Section 123.1(b) that fugitive emissions from the source, after appropriate control, meet the following requirements:

1. The emissions are of minor significance with respect to causing air pollution; and
2. The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

# 002 [25 Pa. Code §123.2]

##### Fugitive particulate matter

No person shall permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in the preceding permit Condition #001, Section C, if such emissions are visible at the point the emissions pass outside the person's property.

# 003 [25 Pa. Code §123.31]

##### Limitations

No person shall emit any malodorous air contaminants into the outdoor atmosphere from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

# 004 [25 Pa. Code §123.41]

##### Limitations

No person shall emit visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission is either of the following unless otherwise stated in this permit:

- a. Equal to or greater than 20 percent for a period or periods aggregating more than three minutes in any one hour.
- b. Equal to or greater than 60 percent at any time.

## SECTION C. Site Level Requirements

# 005 [25 Pa. Code §127.441]

### Operating permit terms and conditions.

The permittee shall limit the fuel consumption by all of the sources that are part of the battery assembly facility to 1,090,000 million BTUs during any consecutive 12-month period. The permittee may achieve this limit by combusting either natural gas, propane/air mixture or a combination of both.

The permittee shall limit the emissions from the sources within this permit to less than the following during any consecutive 12-month period: Nitrogen Oxides (NOx) as NO<sub>2</sub> - 80.1 tons

## II. TESTING REQUIREMENTS.

# 006 [25 Pa. Code §123.43]

### Measuring techniques

Visible emissions may be measured by using either of the following:

- a. A device approved by the Department and maintained to provide accurate opacity measurements.
- b. Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

# 007 [25 Pa. Code §127.441]

### Operating permit terms and conditions.

The Department reserves the right to require exhaust stack testing of any source as necessary during the permit term to verify emissions for purposes including emission fees, malfunctions or permit condition violations.

# 008 [25 Pa. Code §127.441]

### Operating permit terms and conditions.

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

# 009 [25 Pa. Code §127.441]

### Operating permit terms and conditions.

For any testing the permittee shall do the following:

- a. Pursuant to 25 Pa. Code Section 139.3 at least 45 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- b. Pursuant to 25 Pa. Code Section 139.3 at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- c. Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of an

## SECTION C. Site Level Requirements

emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

d. Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g) a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test

e. Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

f. Pursuant to 25 Pa. Code Section 139.3 all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

g. All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

h. Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, two copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, a copy of the submittal shall be sent to the South Central Regional Office and District Office.

i. The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR that apply to the source(s) being tested are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between the state and the federal requirements, the most stringent provision, term, condition, method or rule shall be used by default.

# 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for parts of this condition are derived from 40 CFR Part, Subpart KK, NSPS]

The permittee shall use the following test methods to determine compliance with the various emission limits unless another test method is approved by the Department:

- a. Particulate - US EPA Method 5 as found in 40 CFR Part 60.
- b. Sulfuric Acid Mist - US EPA Method 8 as found in 40 CFR Part 60.
- c. Lead - US EPA Method 12 as found in 40 CFR Part 60.

**SECTION C. Site Level Requirements**

- d. Volatile Organic Compounds from the Concaster Wheel - Alcoa Field Test Method 1470-94/ Alcoa Laboratory Analysis Method 1471-94.
- e. Visible Emissions - US EPA Method 9 as found in 40 CFR Part 60 or US EPA Method 22 as found in 40 CFR Part 60.

**III. MONITORING REQUIREMENTS.**

# 011 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall conduct periodic inspections around the facility periphery during the daylight hours when the facility is in production to detect visible emissions, fugitive emissions and malodors as follows:

- a. Visible emissions in excess of the limits stated in condition #004, Section C or any other limits specifically stated in this permit. Visible emissions may be measured according to the methods specified in Condition #008, Section C. As an alternative, facility personnel who observe such visible emissions shall report each incident to the department within two hours of each occurrence and make arrangements for a certified observer to read the visible emissions.
- b. Presence of visible fugitive emissions and fugitive particulate matter beyond the plant boundaries, as stated in Condition #002, Section C.
- c. Presence of odors beyond the facility property boundaries that have the potential to be malodorous as stated in Condition #003, section C.
- d. The frequency of these inspections shall be weekly, except as provided in Condition 012.

# 012 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

For any monitoring which references this condition, the permittee shall ensure that the monitoring is conducted for at least 90% of the assigned intervals during any 6-month reporting period. The permittee shall keep records sufficient to demonstrate compliance with this condition.

**IV. RECORDKEEPING REQUIREMENTS.**

# 013 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall record the results of the weekly inspections around the facility on the approved check sheets. The check sheets shall be made available to the Department upon request.

# 014 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 Pa Code Section 129.91, RACT]

The permittee shall maintain sufficient records so that monthly and 12-month rolling total emissions of the items listed below from the facility's sources can be maintained.

For the purpose of Prevention of Significant Deterioration (PSD), New Source Review (NSR), Reasonably Available Control Technology (RACT) and any other applicable federal or state air quality program, the permittee shall maintain the above 12-month rolling total of the below emissions from the battery assembly facility sources and a combined total emissions of the battery assembly facility and the adjacent smelter:

**SECTION C. Site Level Requirements**

- a. PM-10 (minus sulfuric acid mist)
- b. PM-2.5 (minus sulfuric acid mist)
- b. Nitrogen Oxides (NO<sub>x</sub>)
- c. Sulfur Oxides (SO<sub>x</sub>)
- d. Carbon Monoxide (CO)
- e. Volatile Organic Compounds (VOC)
- f. Lead (Pb)
- g. Sulfuric Acid Mist (H<sub>2</sub>SO<sub>4</sub>)

Note: These emissions shall be calculated using methods and/or emission factors approved by the Department or certified continuous emission monitors. Sulfuric Acid Mist (H<sub>2</sub>SO<sub>4</sub>) shall be reported as particulate from all sources at the smelter, while all assembly source shall report the acid mists as mist and not particulate.

# 015 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 Pa Code Section 129.91, RACT]

The permittee shall maintain permanent records of the fuel consumption on a monthly basis in a method approved by the Department. The records shall contain the following minimum information:

- a. Monthly fuel consumption
- b. Type of fuel
- c. Heating value of each fuel used in BTUs
- d. Monthly fuel consumption in BTUs
- e. 12-month rolling total of BTUs fired

# 016 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain an inventory of all process related emission points for each battery assembly plant and the oxide plant. This inventory shall be updated, at a minimum, once every calendar quarter. The inventory shall be submitted to the Department in conjunction with the AIMS submission. The inventory shall include each source, air pollution control device and stack.

**V. REPORTING REQUIREMENTS.**

# 017 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee's annual Compliance Certification as required by Condition #024, Section B, should be postmarked or hand-delivered by January 31st of each year to the Department and EPA in accordance with the submission requirements specified in Condition #020, Section B.

# 018 [25 Pa. Code §127.511]

**Monitoring and related recordkeeping and reporting requirements.**

[Additional authority for this permit condition is derived from 25 Pa Code Chapters 122 and 124 and 40 CFR Part 60 Section 60.19]

## SECTION C. Site Level Requirements

The permittee shall report each malfunction to the Department that occurs with these sources. For purposes of this condition, a malfunction is any sudden, infrequent and not reasonably preventable failure of the air pollution control equipment, process equipment, or process to operate in a normal or usual manner that may result in an increase in air emissions above minor significance.

When malfunctions pose an imminent danger to the public health and safety or harm to the environment, the notification shall be submitted to the Department no later than two (2) hours after the incident is detected by the permittee.

a. The notice shall describe the:

1. Name and location of the facility;
2. Nature and cause of the malfunction or breakdown;
3. Time when the malfunction or breakdown was first observed;
4. Expected duration of the excess emissions; and
5. Estimated rate of emissions.

b. The permittee shall notify the Department immediately when corrective measures have been accomplished.

c. Subsequent to the malfunction, the permittee shall submit a full report of the malfunction to the Department within fifteen (15) days, if requested.

Malfunctions shall be reported to the Department at the following address:

PA DEP, Reading District Office  
Air Quality Program  
1001 Cross Roads Blvd  
Reading, Pa 19605

Telephone reports can be made to the Air Quality Program at 610-916-0100 during normal business hours or to the Department's Emergency Hotline 877-333-1904 at any time.

# 019 [25 Pa. Code §135.3]

### Reporting

The permittee shall submit an annual emissions report to the Department. The report for a given calendar year is due no later than March 1 of the following year, and shall be submitted to the Lancaster/Reading District Supervisor unless otherwise specified. The report shall also include monthly records of fuel usage and operating hours for the sources listed in this permit, and shall ensure that any emissions estimates include emissions not only from normal operations, but also from any malfunctions, startups and shutdowns, to the extent that such emissions meet required reporting thresholds.

## VI. WORK PRACTICE REQUIREMENTS.

# 020 [25 Pa. Code §123.1]

### Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from the sources identified in Condition #001, Section C from becoming airborne. These actions shall include, but not be limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction

## SECTION C. Site Level Requirements

operations, the grading of roads or the clearing of land.

b. Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

c. Paving and maintenance of roadways.

d. Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water or other means.

# 021 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this condition is derived from 25 Pa Code Section 129.91, RACT]

The permittee shall maintain each air pollution control device as identified in the source inventory to control emissions from the associated source. Nevertheless, if a baghouse goes down, the permittee may finish out the operation of the process for that shift, provided that the building housing the process remains under negative pressure. The permittee shall keep adequate records to demonstrate compliance with this condition.

# 022 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Equipment (a differential manometer or equivalent, as approved by the Department), shall be provided and maintained so that at any time the pressure drop across each particulate, H<sub>2</sub>SO<sub>4</sub> and/or lead control device can be measured.

## VII. ADDITIONAL REQUIREMENTS.

# 023 [25 Pa. Code §123.42]

[Exceptions](#)

The limitations of 25 Pa. Code Section 123.41 (relating to limitations) do not apply to a visible emission in any of the following instances:

a. When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.

b. When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

c. When the emission results from sources specified in Condition #001, Section C (relating to prohibition of certain fugitive emissions).

# 024 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

For those control devices that have multiple sources being exhausted to them with multiple emission limits, the allowable emission limit shall be determined by using the air volume weighted averaging method as found in 40 CFR Part 60, Section 60.372(b).

## SECTION C. Site Level Requirements

$$Se = \text{SUM ( 1 through N ) } Sa * ( Qsda / Q sdt )$$

Where:

Se = The equivalent standard for the total exhaust stream.

Sa = The actual standard for each exhaust stream ducted to the common control device.

N = The total number of exhaust streams ducted to the common control device.

Qsda = The dry standard volumetric flow rate of the effluent gas stream from each source ducted to the common control device.

Qsdt = The total dry standard volumetric flow rate of all effluent gas streams ducted to the common control device.

Note: There is only one (1) control device operated at EPM's Lyon Station, PA Battery Manufacturing Facility where the exhaust streams of multiple sources with different 40 CFR Part 60, Subpart KK emission limits are commingled, Control Device C17 - FABRIC CLTR: A-2 COS&ENVEL/CONCAST (CARB 1).

# 025 [25 Pa. Code §129.14]

### Open burning operations

a. No person shall conduct open burning of materials in such a manner that:

1. The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
2. Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
3. The emissions interfere with the reasonable enjoyment of life and property.
4. The emissions cause damage to vegetation or property.
5. The emissions are or may be deleterious to human or animal health.

b. These limits do not apply where the open burning operations result from the following:

1. A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
2. Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
3. A fire set for the prevention and control of disease or pests, when approved by the Department.
4. A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
5. A fire set solely for recreational or ceremonial purposes.
6. A fire set solely for cooking food.



## SECTION C. Site Level Requirements

c. This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act, 35 P. S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.

### VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to Title V General Requirements).

### IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

\*\*\* Permit Shield In Effect \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 111

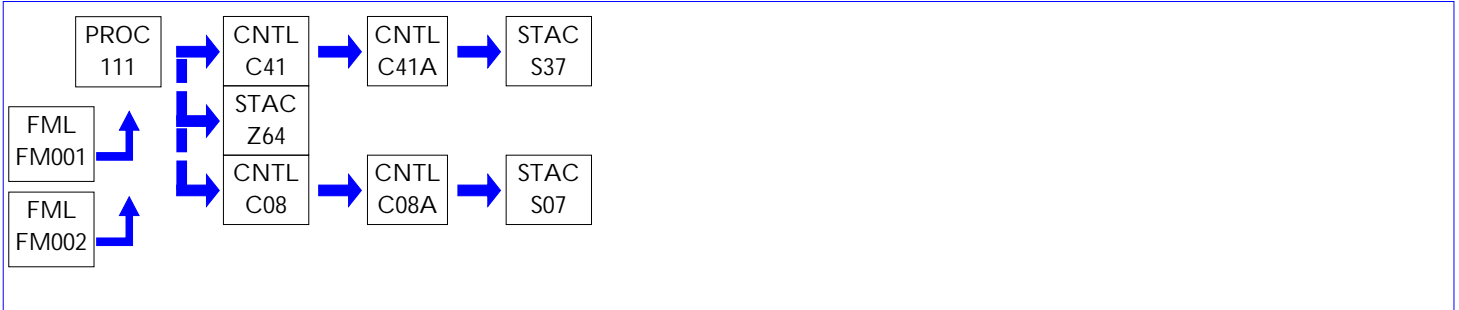
Source Name: A-1 MIXING (SCIEN FC 1) &amp; PASTING (FARR CC 4)

Source Capacity/Throughput:

200.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

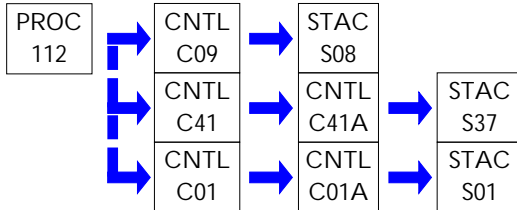
## SECTION D. Source Level Requirements

Source ID: 112

Source Name: A-1 DRY CHARGE AREA (WHEEL FC 2, SCIEN FC 6 &amp; FARR CC 4)

Source Capacity/Throughput: 200.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 113

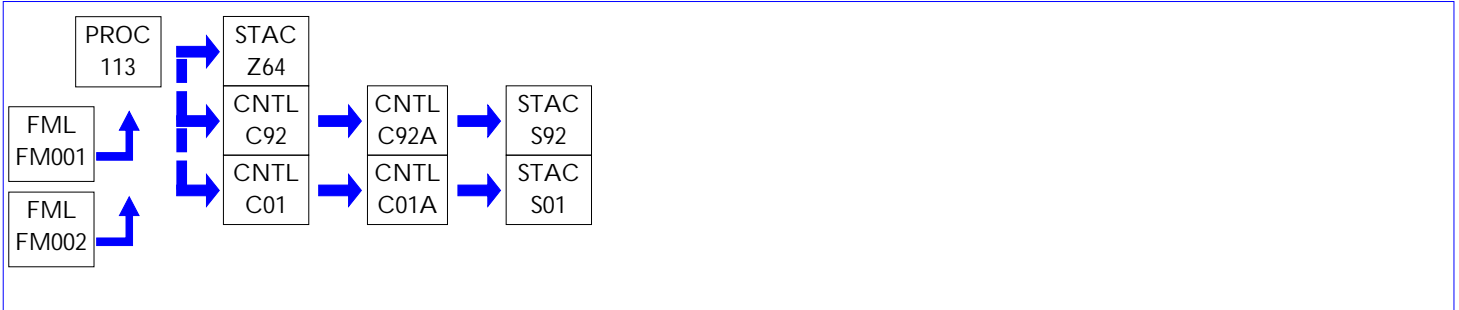
Source Name: A-1 GRIDCAST (SCIEN FC 6 &amp; SCIEN FC 5)

Source Capacity/Throughput:

200.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 114

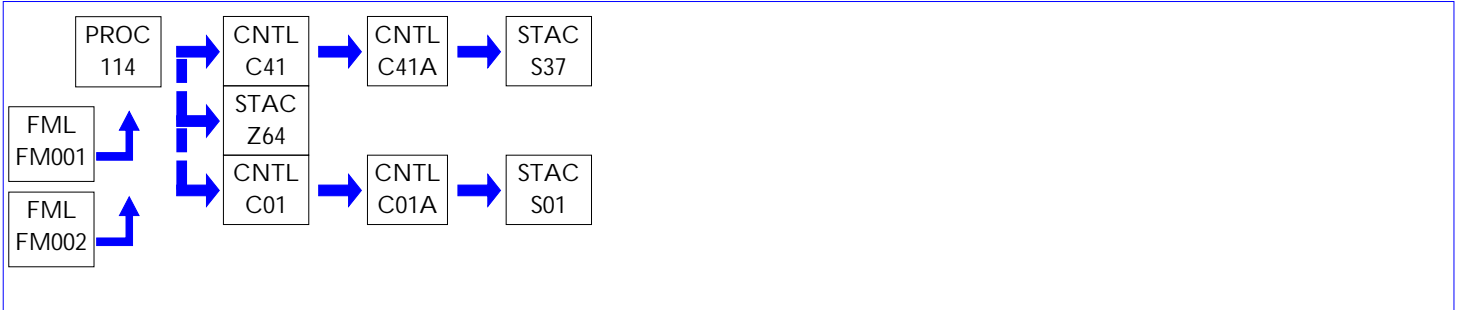
Source Name: A-1 BATTERY ASSM (FARR CC 4 &amp; SCIEN FC 6)

Source Capacity/Throughput:

200.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

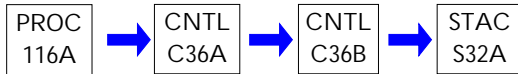
**SECTION D. Source Level Requirements**

Source ID: 116A

Source Name: A-1 LEAD OXIDE STORAGE SILOS (2) (BIN VENTS)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION D. Source Level Requirements

Source ID: 118

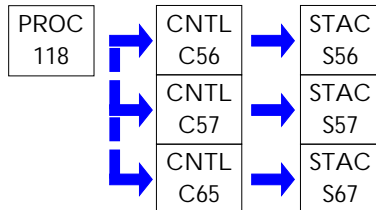
Source Name: A-1 FORMATION RM (3 MIST ELIMS)

Source Capacity/Throughput:

200.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

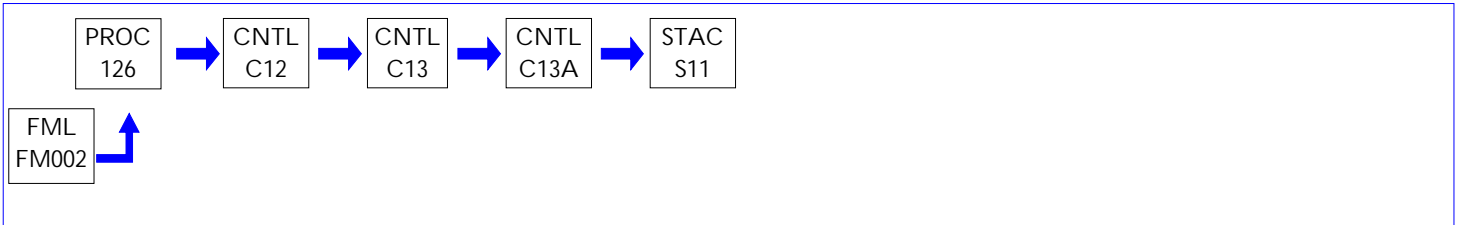
**SECTION D. Source Level Requirements**

Source ID: 126

Source Name: LEAD OXIDE MILL 1

Source Capacity/Throughput:	750.000 CF/HR	NATURAL GAS
	2,600.000 Lbs/HR	LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



**SECTION D. Source Level Requirements**

Source ID: 127

Source Name: LEAD OXIDE MILL 3

Source Capacity/Throughput:

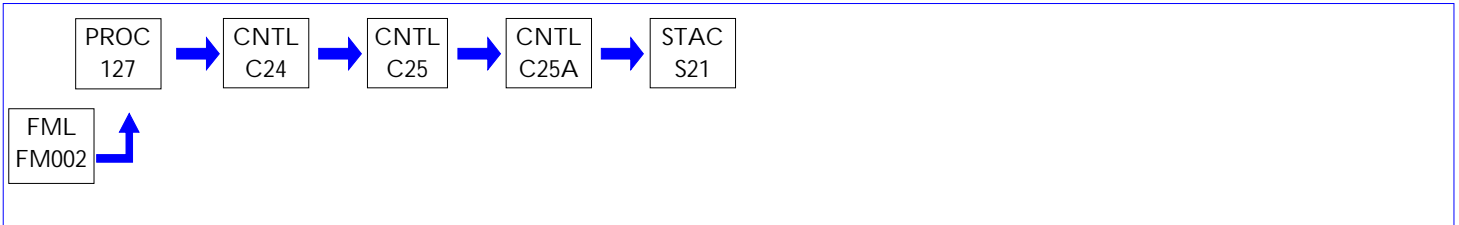
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

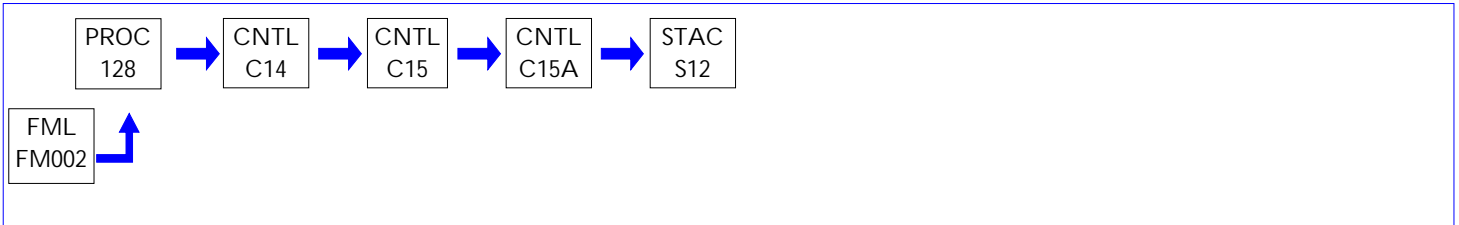
**SECTION D. Source Level Requirements**

Source ID: 128

Source Name: LEAD OXIDE MILL 2

Source Capacity/Throughput: 750.000 CF/HR  
2,600.000 Lbs/HRNATURAL GAS  
LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 129

Source Name: LEAD OXIDE MILL 4

Source Capacity/Throughput:

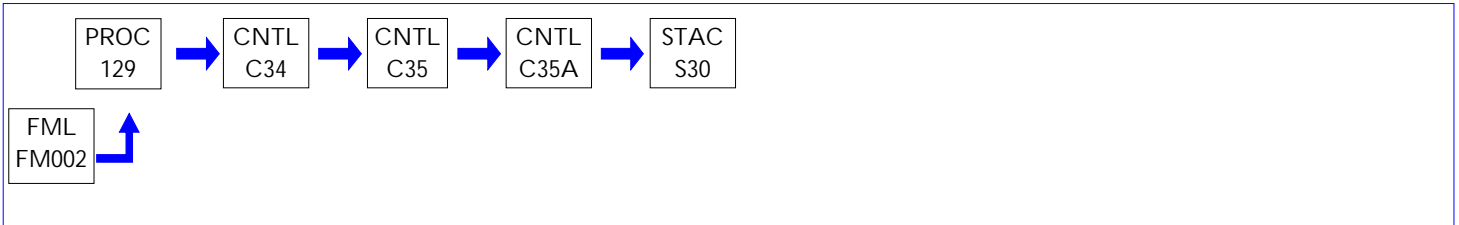
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

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**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

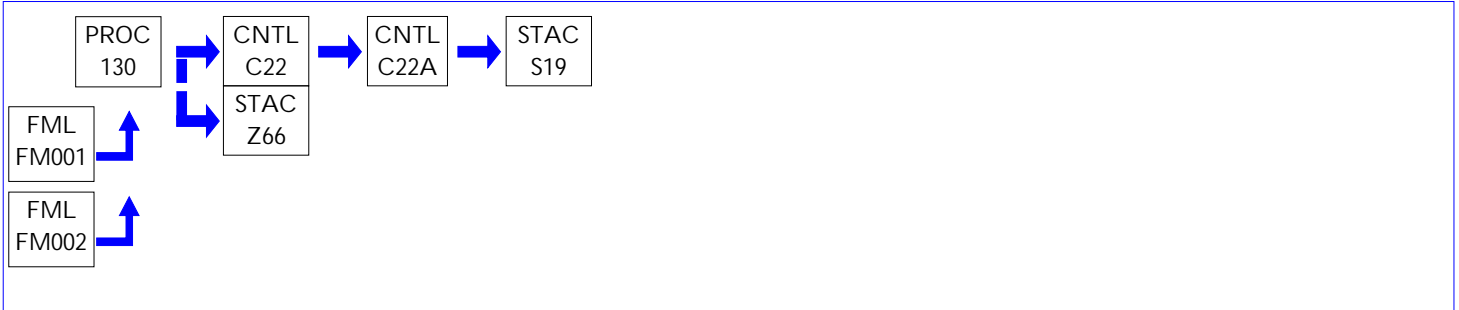
**SECTION D. Source Level Requirements**

Source ID: 130

Source Name: A-2 BATTERY ASSEMBLY C (SCIENTIFIC FC 2)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

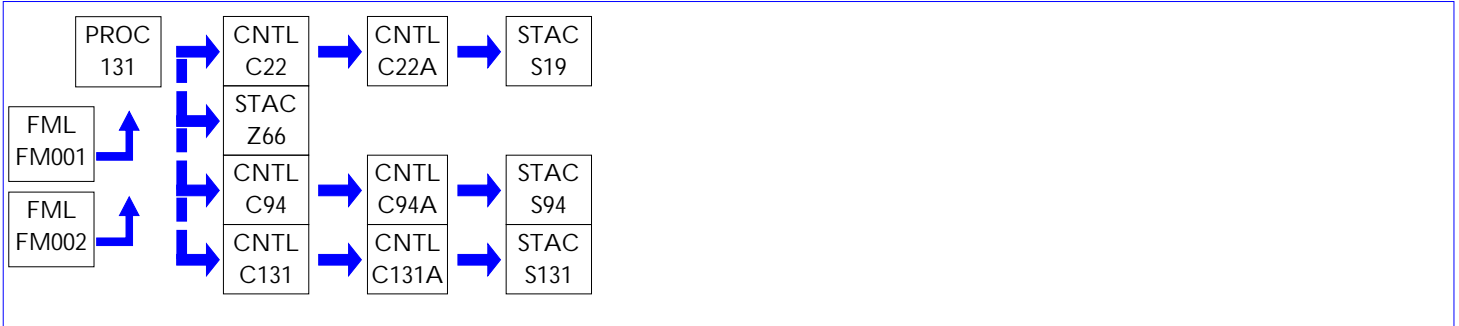
## SECTION D. Source Level Requirements

Source ID: 131

Source Name: A-2 MIXING (SCIEN FC 9) &amp; PASTING (SCIEN FC 2 &amp; 6)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

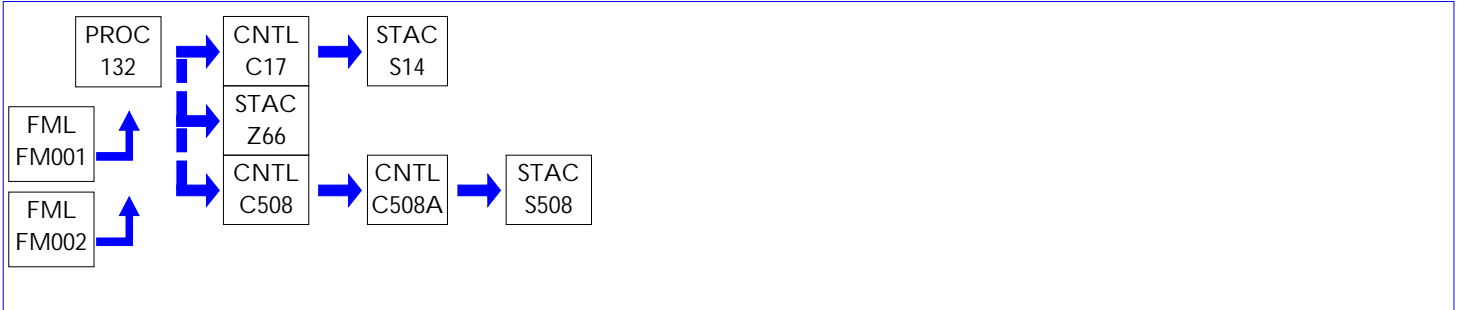
**SECTION D. Source Level Requirements**

Source ID: 132

Source Name: A-2 COS &amp; ENVELOPE (CARB FC 1 &amp; SCIEN FC 10)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

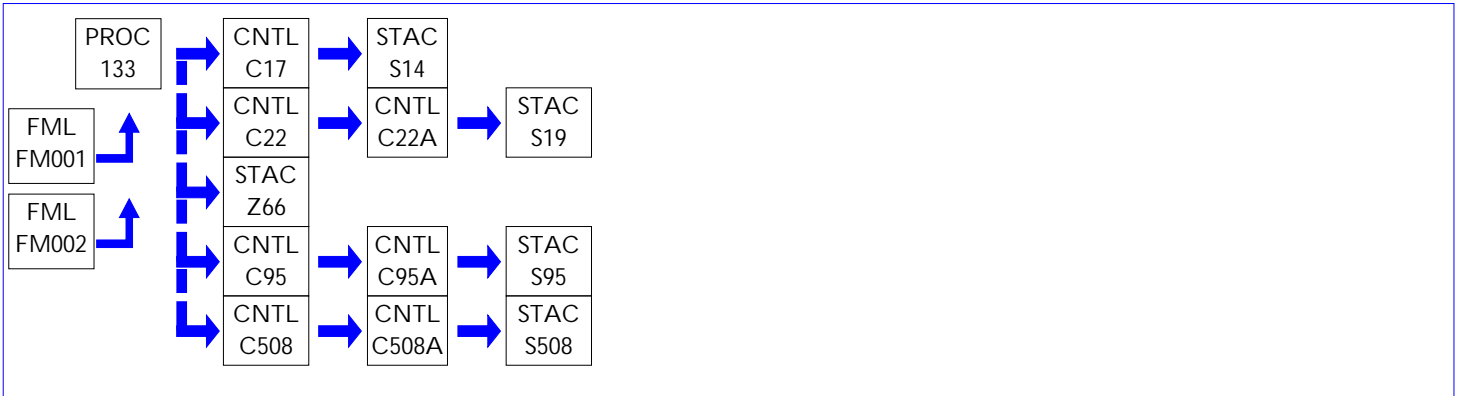
## SECTION D. Source Level Requirements

Source ID: 133

Source Name: A-2 GRIDCAST (SCIEN FC 7, 2 &10 & CARB FC 1)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY



## I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

## II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

#### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

## V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

## VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

## VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

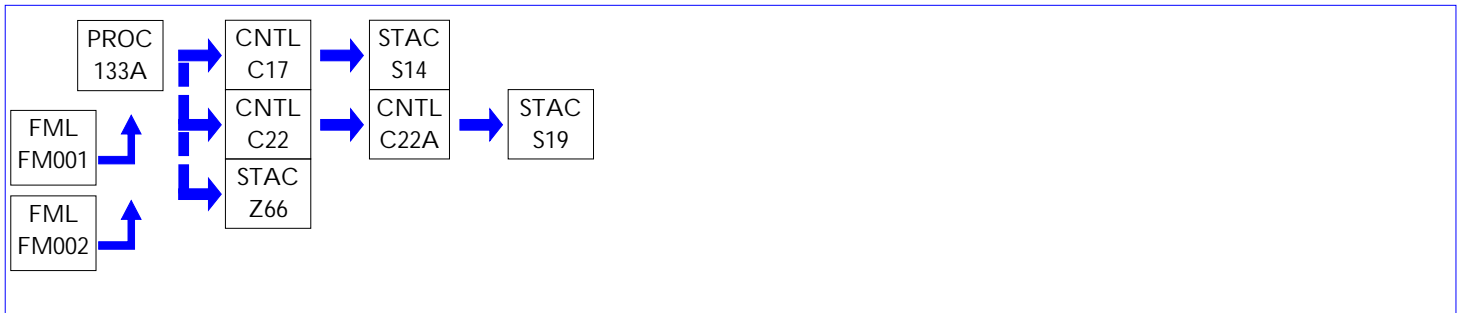
**SECTION D. Source Level Requirements**

Source ID: 133A

Source Name: A-2 CONCASTER (CARB FC #1 &amp; SCIENC FC #2)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY  
SG 10 RACT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



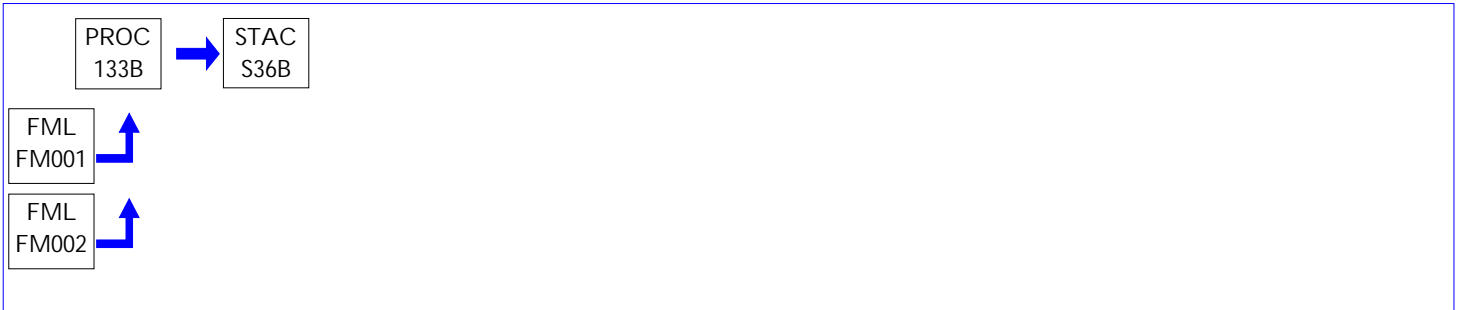
**SECTION D. Source Level Requirements**

Source ID: 133B

Source Name: UNCONTROLLED GRIDCAST MACHINE NO 1

Source Capacity/Throughput: 196.000 Each/HR LB LEAD

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

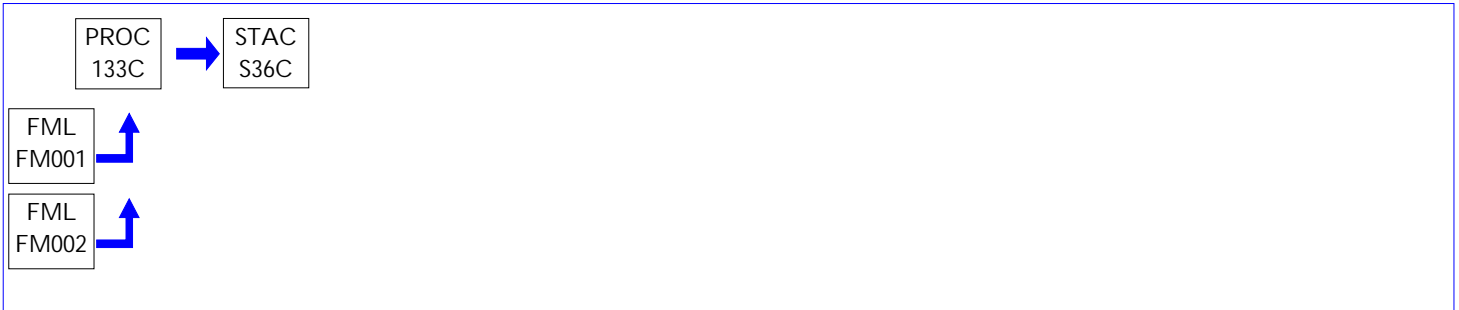
**SECTION D. Source Level Requirements**

Source ID: 133C

Source Name: UNCONTROLLED GRIDCAST MACHINE NO 2

Source Capacity/Throughput: 196.000 Each/HR LB LEAD

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 133D

Source Name: UNCONTROLLED GRIDCAST MACHINE NO 3

Source Capacity/Throughput: 196.000 Each/HR LB LEAD

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

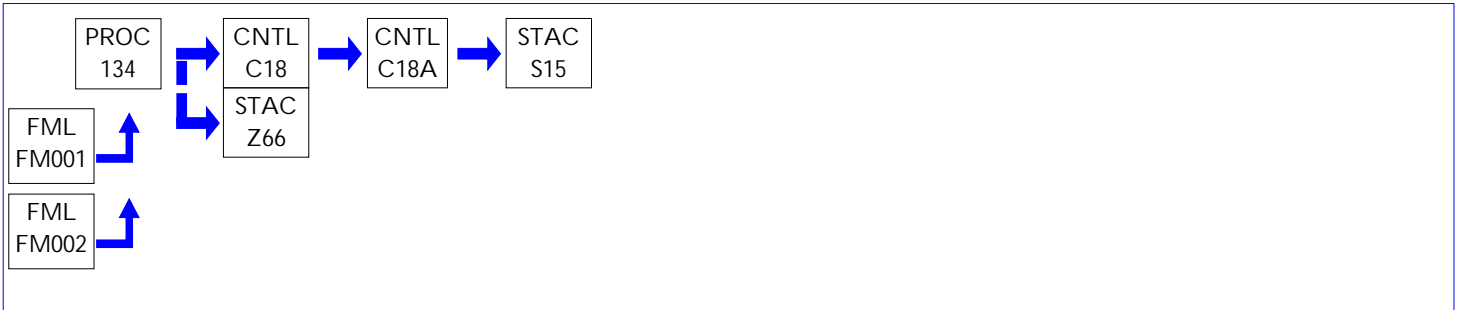
**SECTION D. Source Level Requirements**

Source ID: 134

Source Name: A-2 ASSEMBLY (SCIENTIFIC FC 8)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

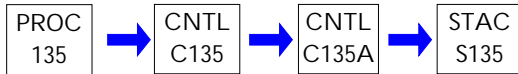
**SECTION D. Source Level Requirements**

Source ID: 135

Source Name: IND LEAD OXIDE RECEIVING TANK (BIN VENT)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 136

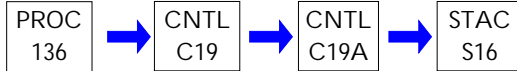
Source Name: A-2 LEAD OXIDE STORAGE SILOS (7) (BIN VENTS)

Source Capacity/Throughput:

9.500 Tons/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 138

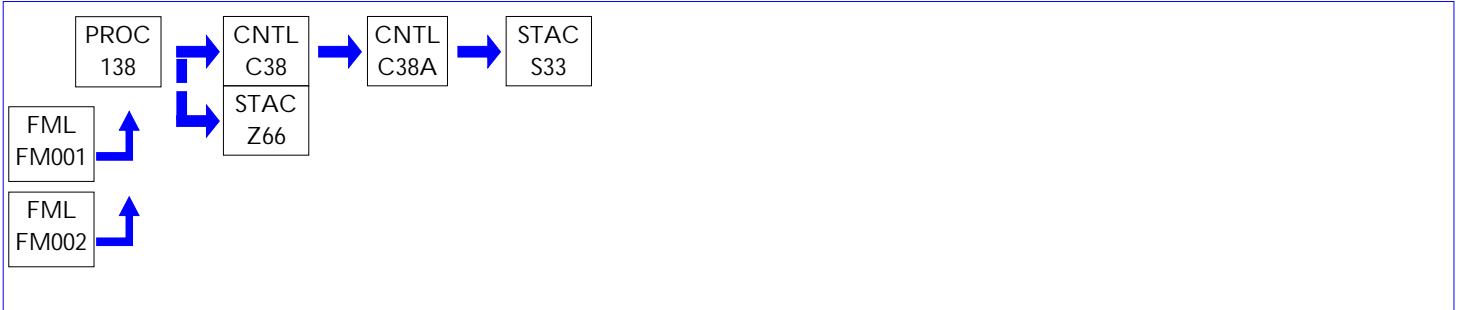
Source Name: A-2 BATT ASMBLY (FARR CC 3)

Source Capacity/Throughput:

1,100.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

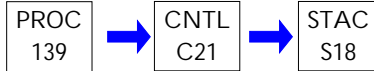
**SECTION D. Source Level Requirements**

Source ID: 139

Source Name: A-2 BATTERY FORMATION (8 MIST ELIMN)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



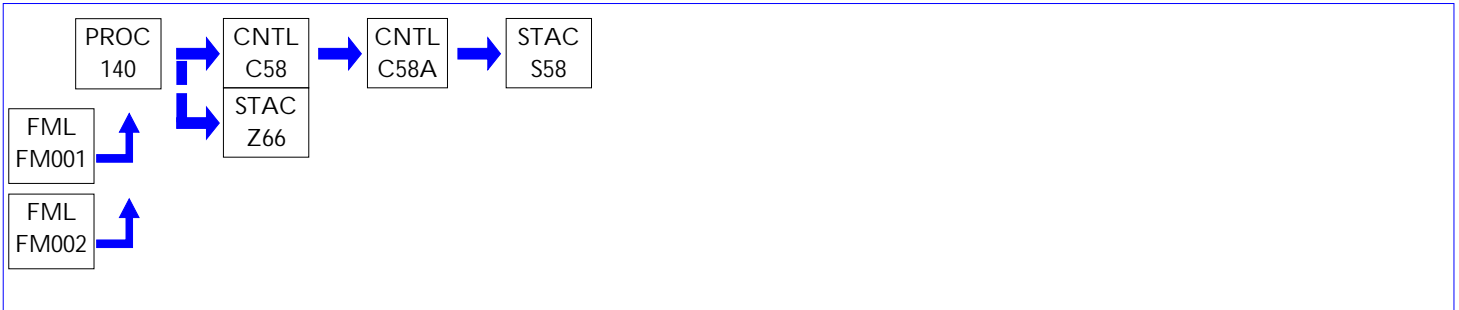
**SECTION D. Source Level Requirements**

Source ID: 140

Source Name: A-2 BATT ASMBLY D (FARR CC 4)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

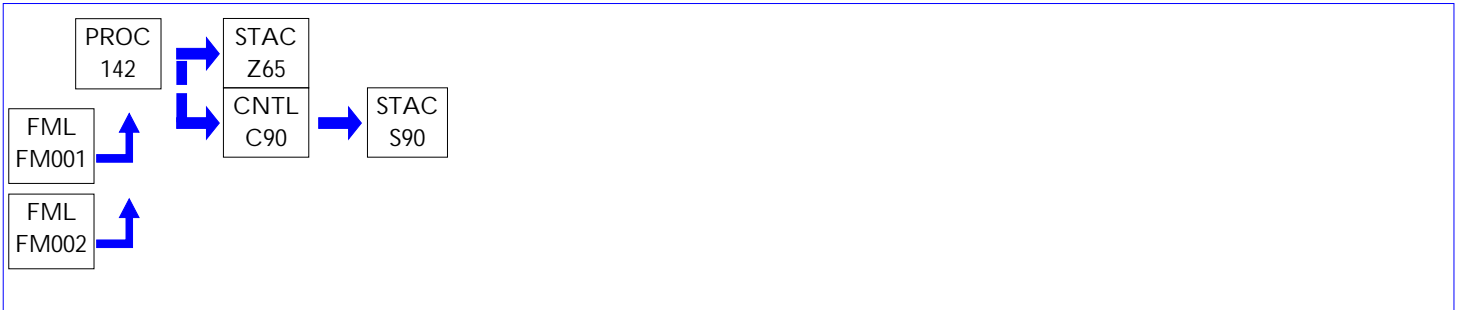
**SECTION D. Source Level Requirements**

Source ID: 142

Source Name: IND - BATTERY ASSEMBLY (OSI FC B)

Source Capacity/Throughput: 120.000 Each/HR BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 143

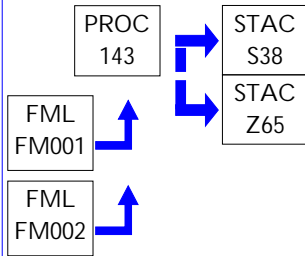
Source Name: IND GRIDCAST

Source Capacity/Throughput:

120.000 Each/HR

BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

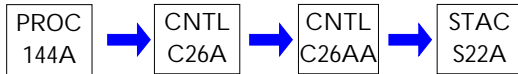
**SECTION D. Source Level Requirements**

Source ID: 144A

Source Name: IND LEAD OXIDE STORAGE SILOS (2) (BIN VENTS)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 146

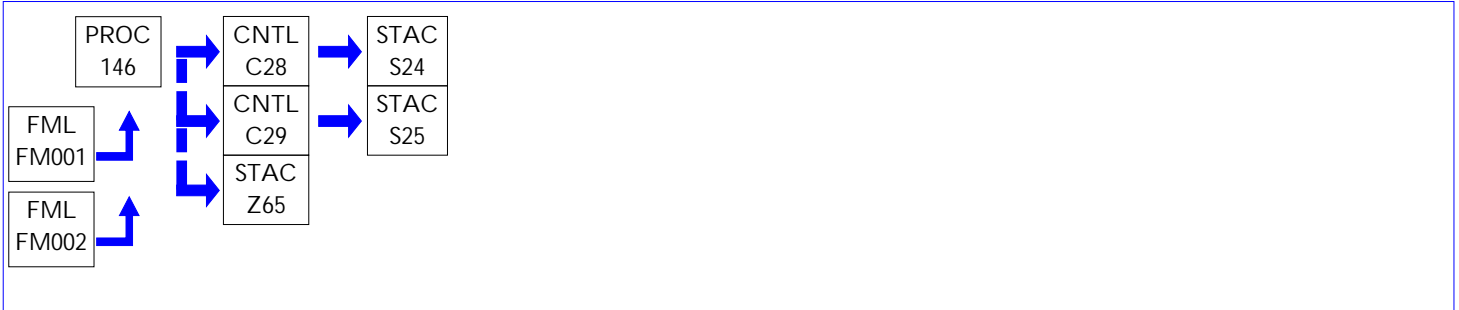
Source Name: IND MIX (AAF ROTO) &amp; PASTE (CARB FC D)

Source Capacity/Throughput:

120.000 Each/HR

BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

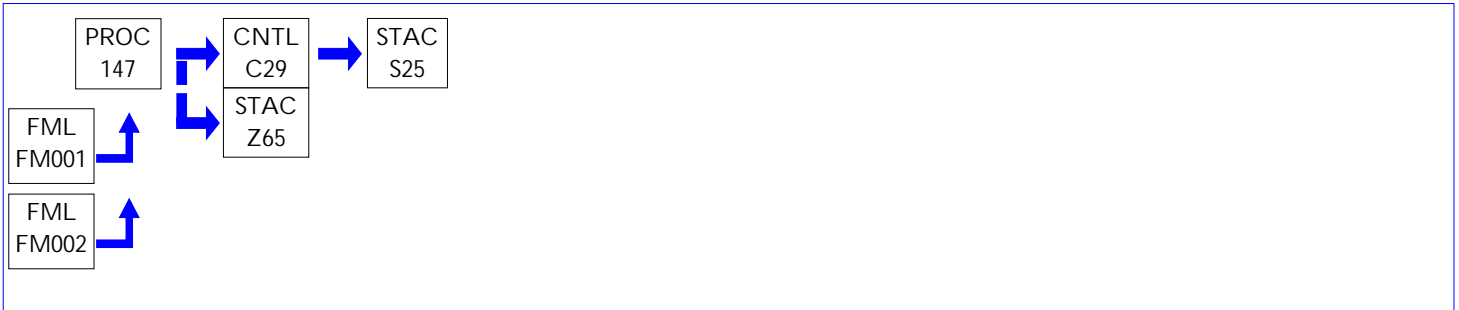
**SECTION D. Source Level Requirements**

Source ID: 147

Source Name: IND BATT ASSEMBLY &amp; DRY CHARGE (CARB FC D)

Source Capacity/Throughput: 120.000 Each/HR BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 148

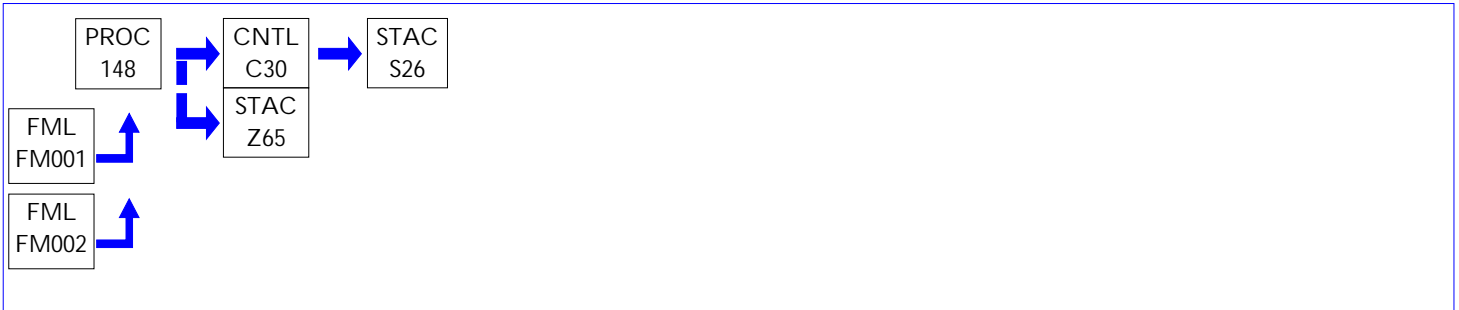
Source Name: IND BATT ASSEMBLY (CARB FC E)

Source Capacity/Throughput:

120.000 Each/HR

BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

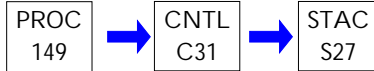
**SECTION D. Source Level Requirements**

Source ID: 149

Source Name: IND FORMING ROOM &amp; WET CHARGE (5 MIST ELIM)

Source Capacity/Throughput: 120.000 Each/HR BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



## SECTION D. Source Level Requirements

Source ID: 150

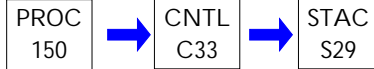
Source Name: IND BATTERY BOOST (4 MIST ELIM)

Source Capacity/Throughput:

120.000 Each/HR

BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 151

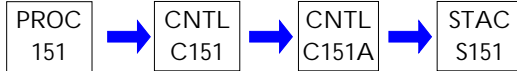
Source Name: A-3 PASTE MIXING (SCIENTIFIC FC #6)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 152

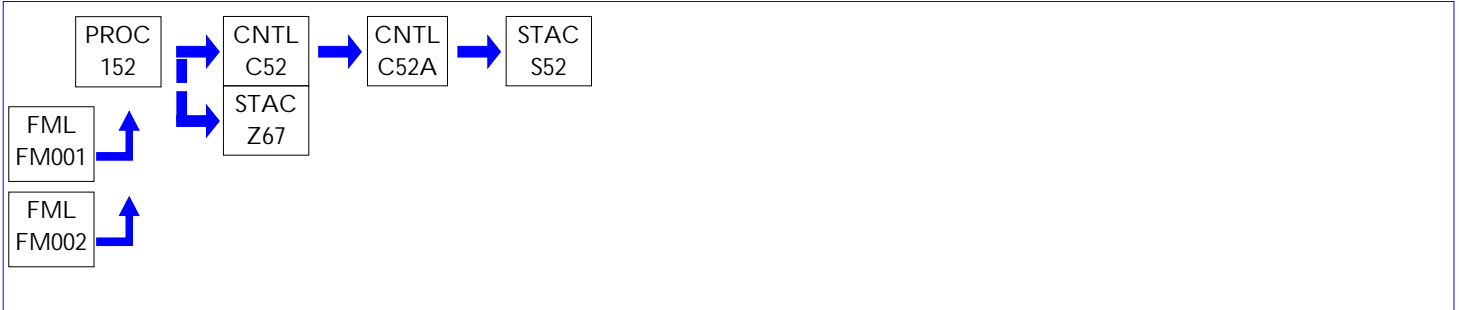
Source Name: A-3 BATTERY ASSEMBLY (SCIENTIFIC CC #1)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 153

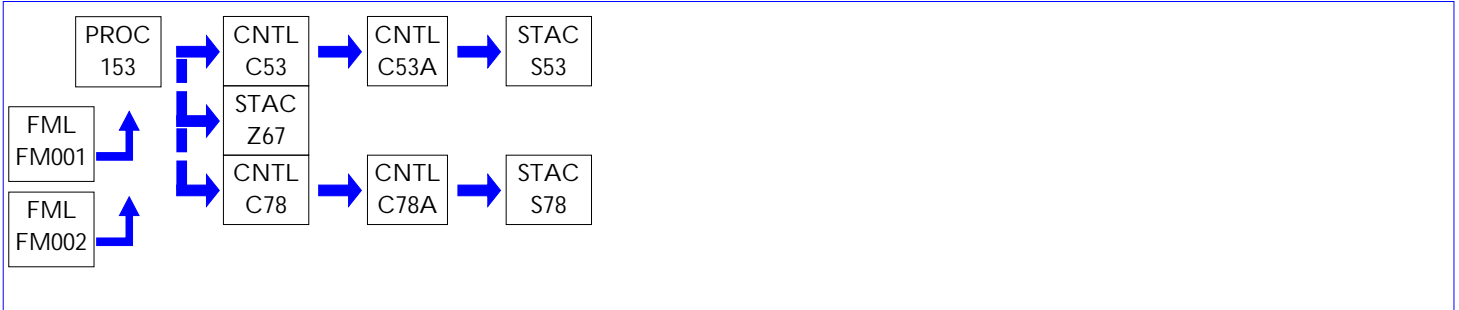
Source Name: A-3 COS &amp; ENVELOPE A (SCIENTIFIC FC #2)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 154

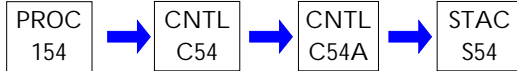
Source Name: A-3 LEAD OXIDE STORAGE SILOS (3) (BIN VENTS)

Source Capacity/Throughput:

27.300 Tons/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 156

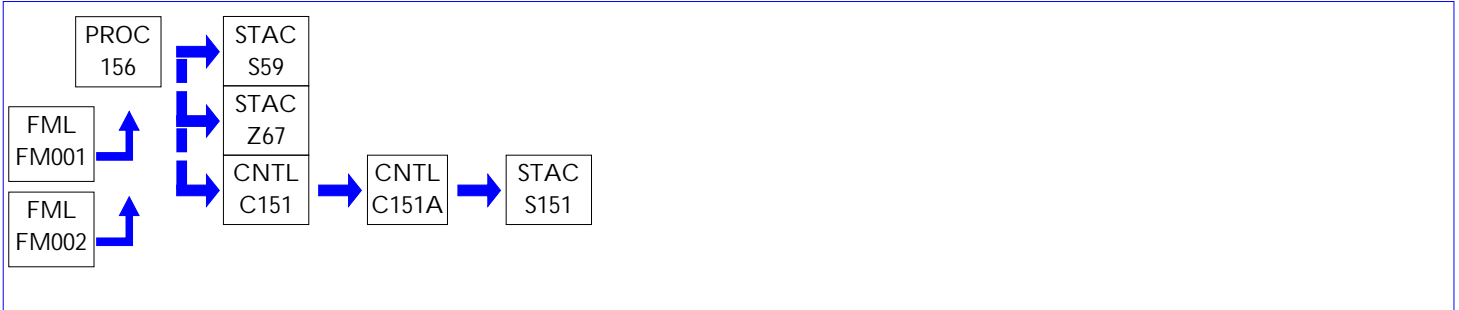
Source Name: A-3 GRIDCAST (SCIENTIFIC FC #6)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 156A

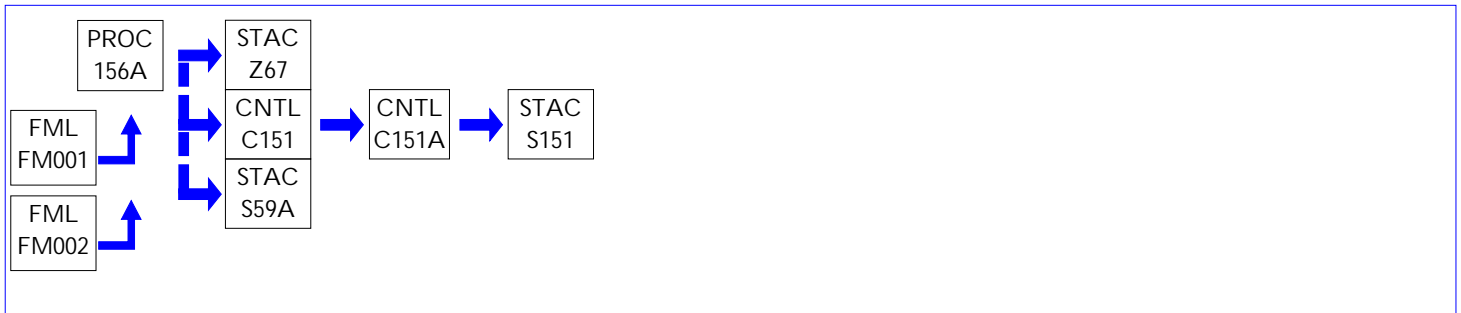
Source Name: A-3 CONCAST (SCIEN FC 6)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY  
SG 10 RACT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 157

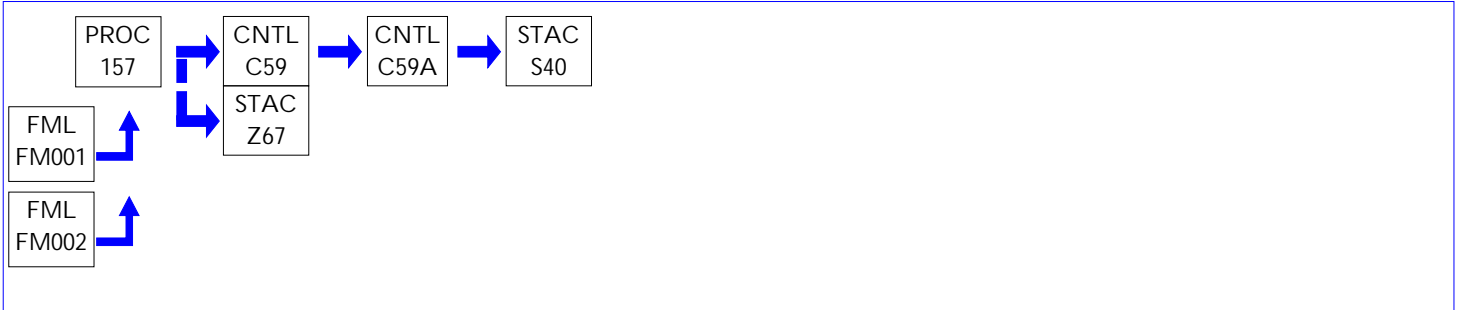
Source Name: A-3 COS &amp; ENVELOPE B (SCIENTIFIC CC #3)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



**SECTION D. Source Level Requirements**

Source ID: 158

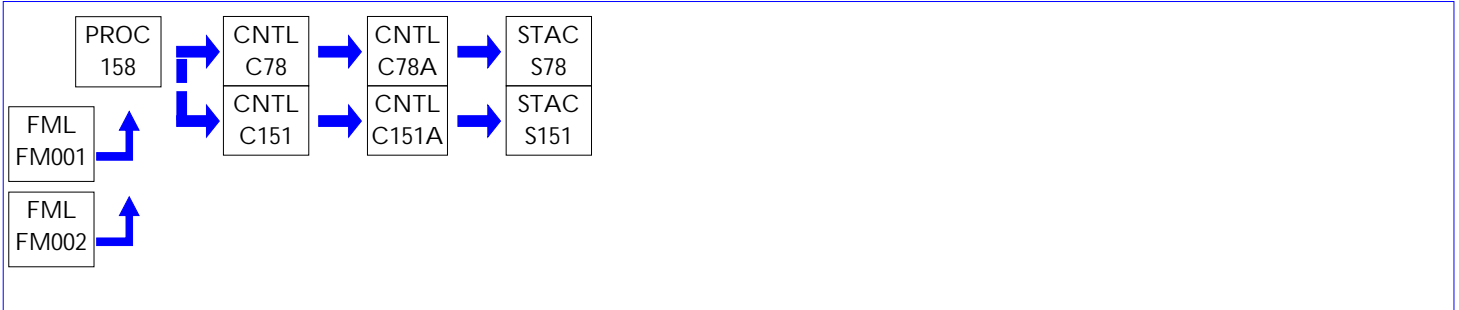
Source Name: A-3 COS &amp; ENVELOPE D (SCIENTIFIC CC #4)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 159

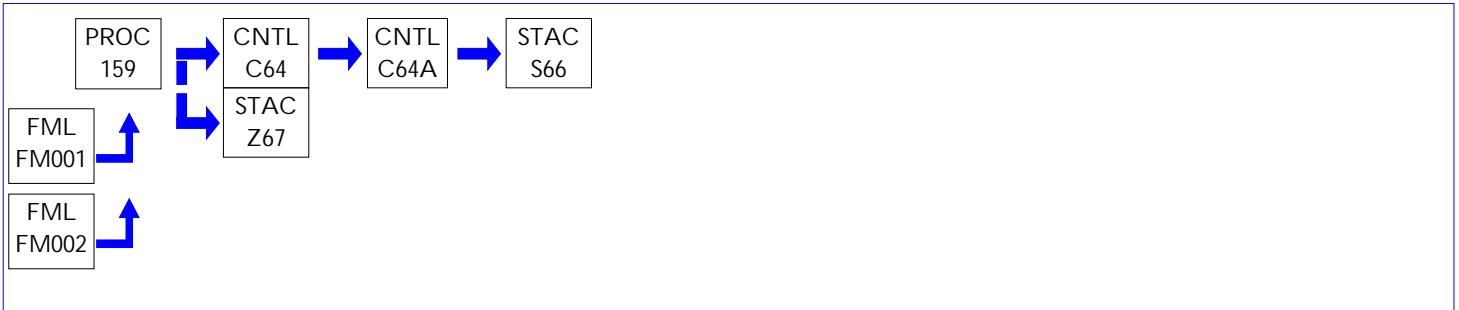
Source Name: A-3 COS &amp; STACKING C (SCIENTIFIC FC #5)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 160

Source Name: LEAD OXIDE MILL 5

Source Capacity/Throughput:

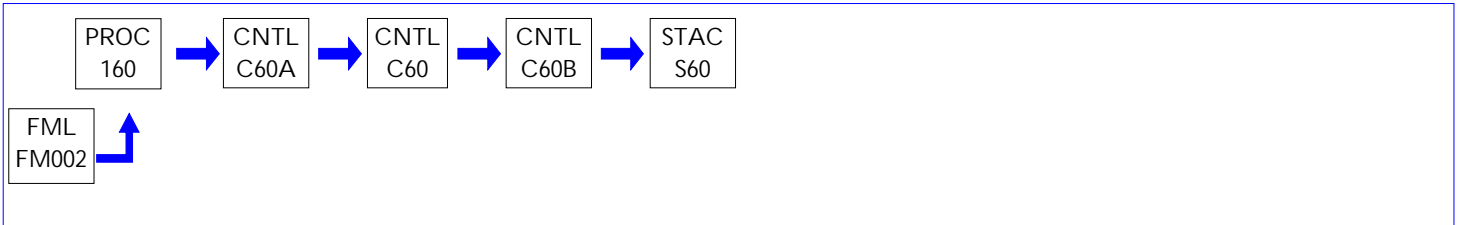
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 161

Source Name: LEAD OXIDE MILL 6

Source Capacity/Throughput:

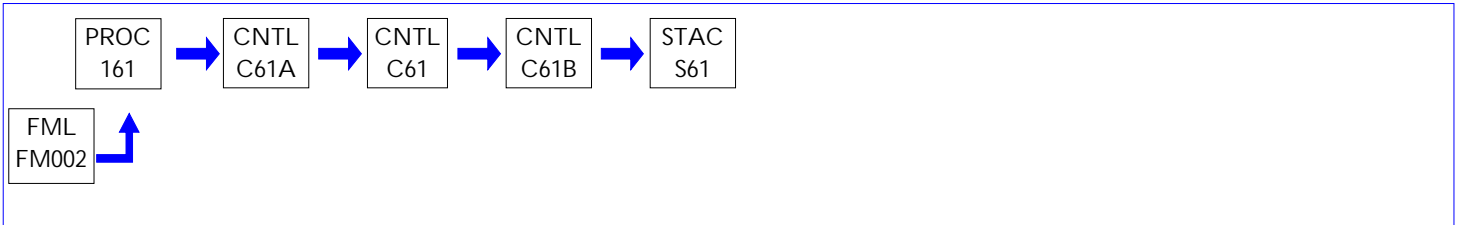
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 162

Source Name: LEAD OXIDE MILL 7

Source Capacity/Throughput:

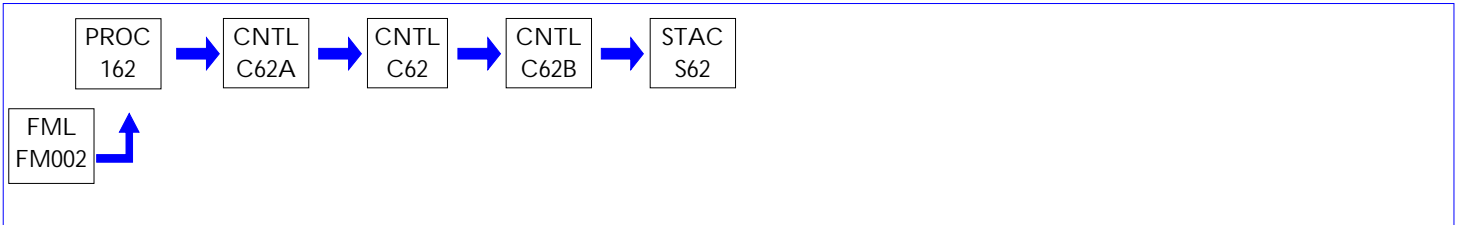
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 163

Source Name: LEAD OXIDE MILL 8

Source Capacity/Throughput:

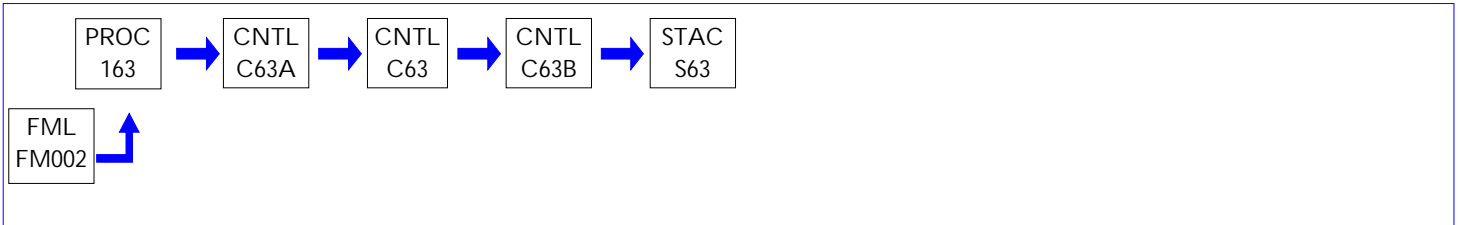
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 169

Source Name: LEAD OXIDE MILL 9

Source Capacity/Throughput:

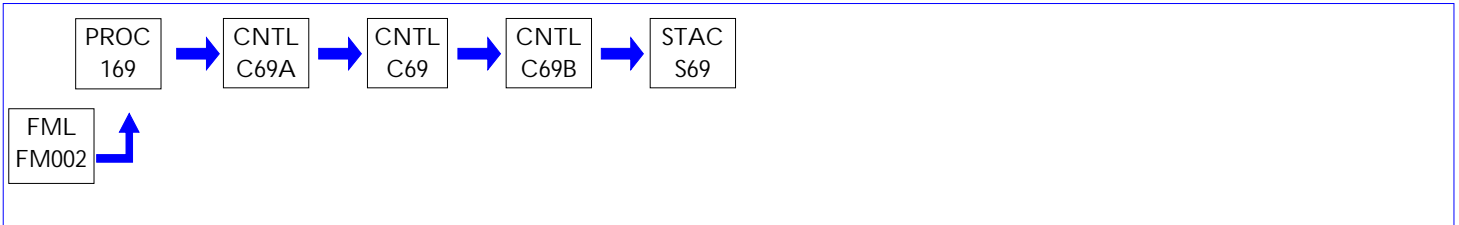
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 170

Source Name: LEAD OXIDE MILL 10

Source Capacity/Throughput:

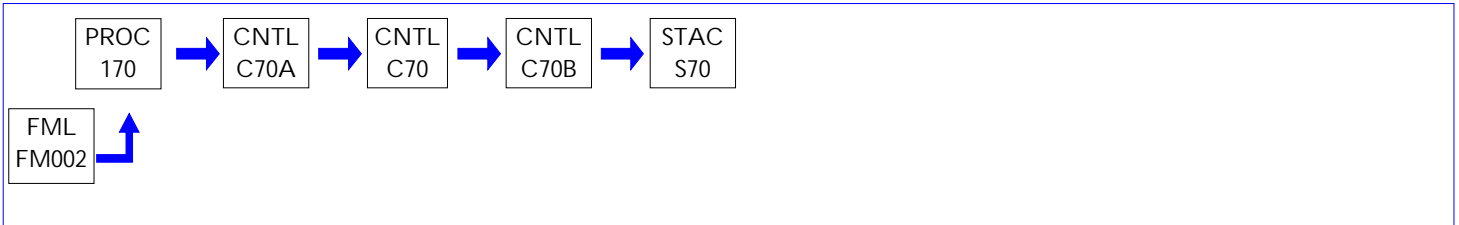
750.000 CF/HR

NATURAL GAS

2,600.000 Lbs/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



**SECTION D. Source Level Requirements**

Source ID: 181

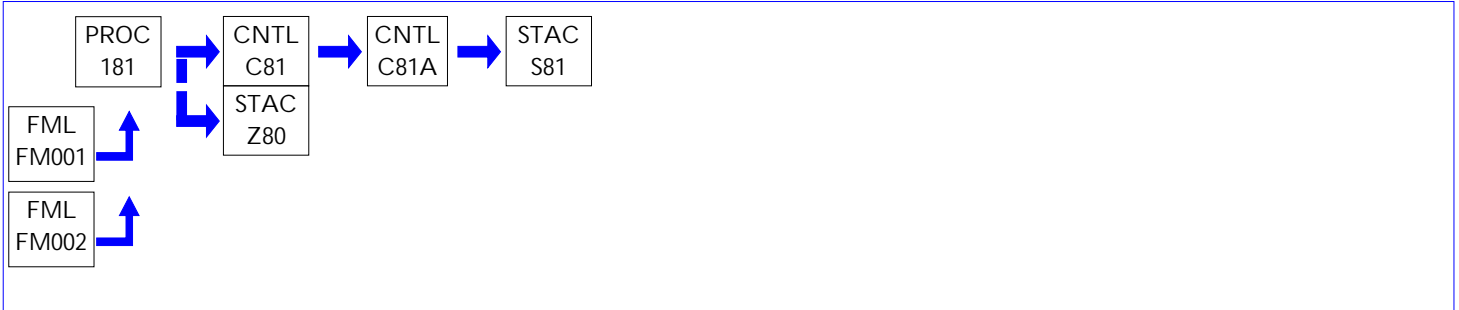
Source Name: S-1 BATTERY ASSMBLY &amp; DRY CHARGE (SCIEN FC #3)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 182

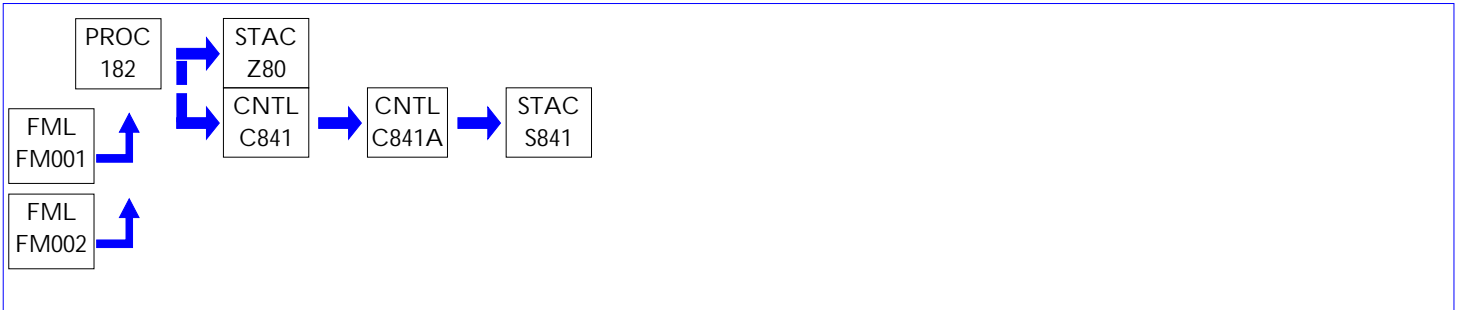
Source Name: S-1 GRIDCAST (SCIENTIFIC FC #1)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION D. Source Level Requirements

Source ID: 182A

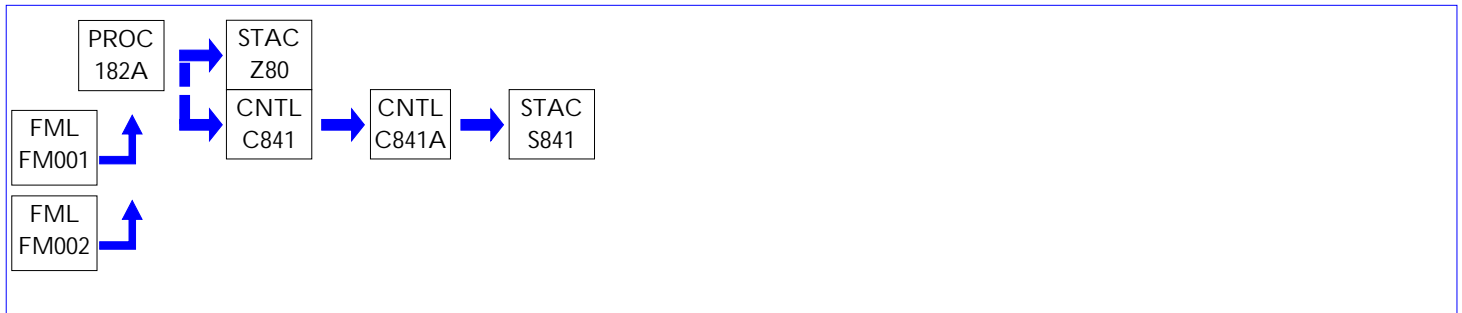
Source Name: S-1 CONCAST (SCIENTIFIC FC #1)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY  
SG 10 RACT



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 183

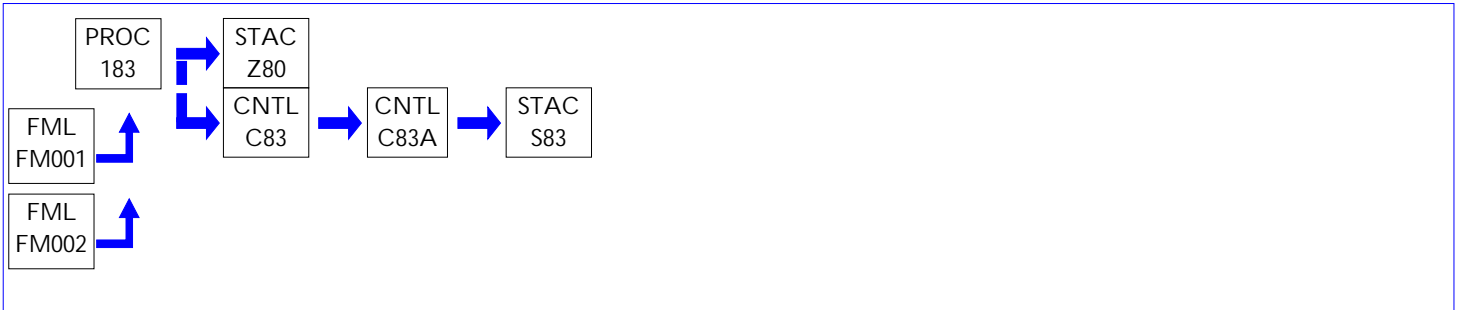
Source Name: S-1 GROUP ASSEMBLY (SCIENTIFIC FC #2)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

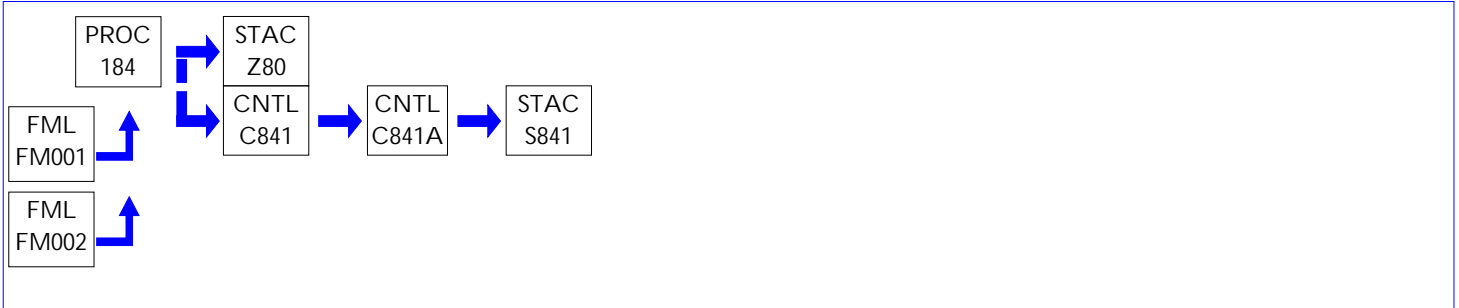
**SECTION D. Source Level Requirements**

Source ID: 184

Source Name: S-1 MIXING (SCIENTIFIC FC #1) &amp; PASTING (SCIENTIFIC FC #4)

Source Capacity/Throughput: 300.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 185

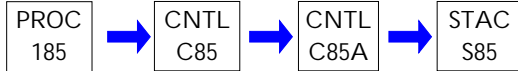
Source Name: S-1 LEAD OXIDE STORAGE SILOS (3) (BIN VENTS)

Source Capacity/Throughput:

15.000 Tons/HR

LEAD OXIDE

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 186

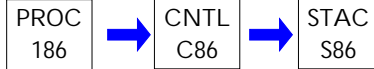
Source Name: S-1 BATTERY ACTTN/BOOSTIN (5 MIST ELIM)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 187

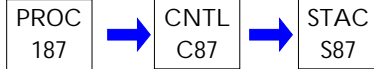
Source Name: S- 1 BATT FORMATION (10 MIST ELIM)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



**SECTION D. Source Level Requirements**

Source ID: 188

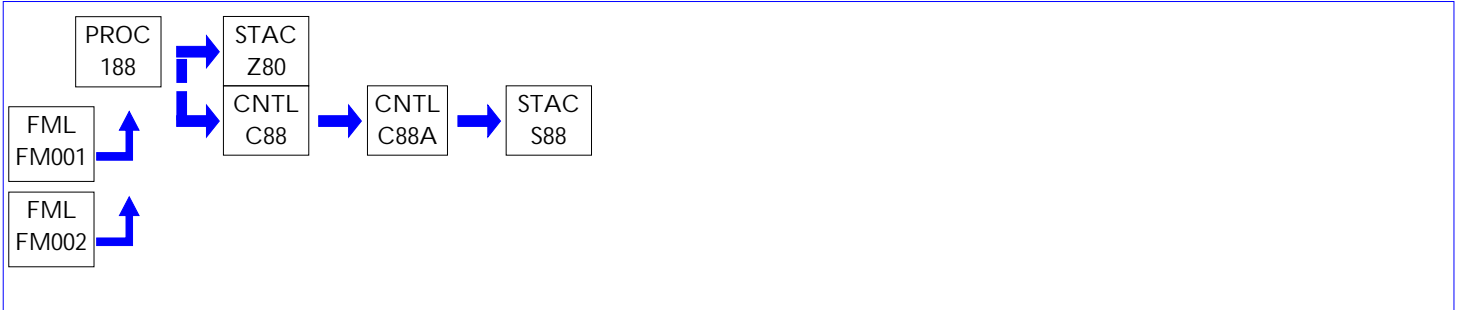
Source Name: S-1 UNIGY &amp; GEL BATT ASSEM (SCIENTIFIC FC #5)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 189

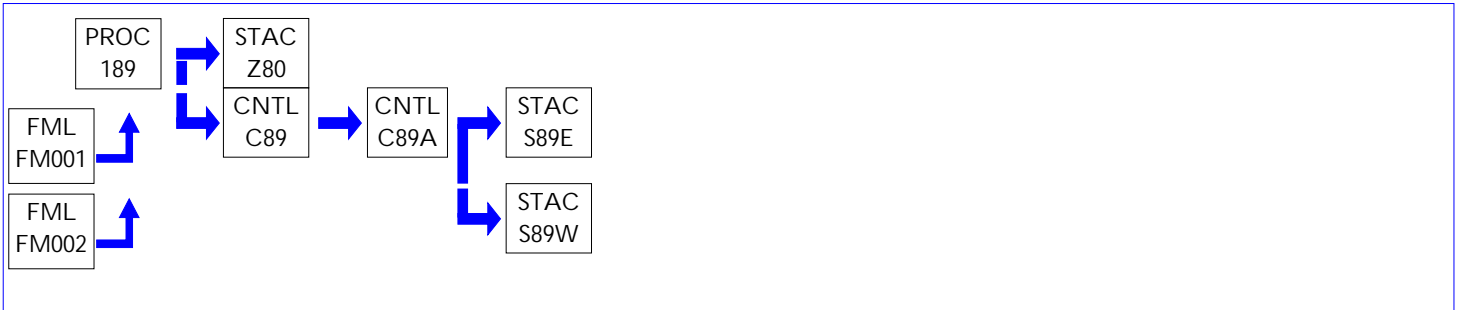
Source Name: S-1 GROUP ASSEMBLY (SCIENTIFIC FC #4)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

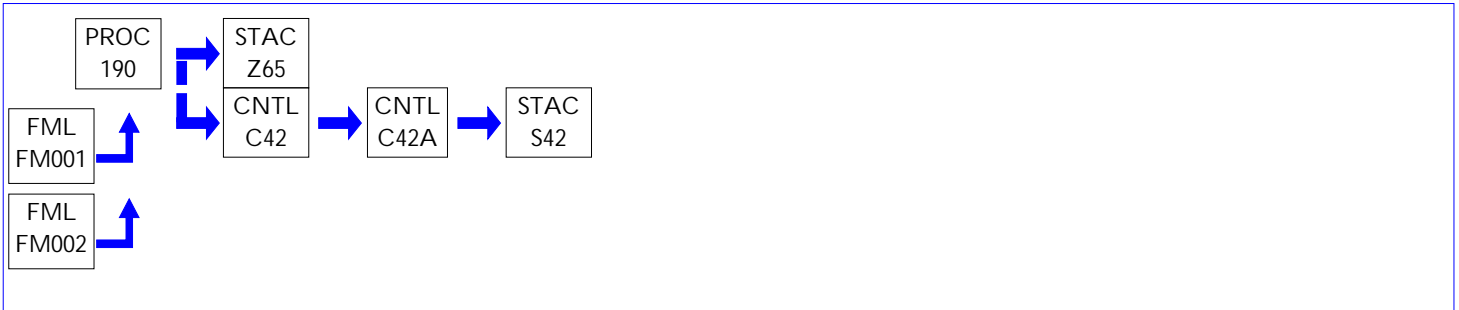
**SECTION D. Source Level Requirements**

Source ID: 190

Source Name: IND BATT ASSEMBLY (FARR FC A)

Source Capacity/Throughput: 120.000 Each/HR BATERIES CALLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 191

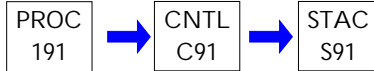
Source Name: A-3- BATTERY FORMATION (13 MIST ELIM)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 192

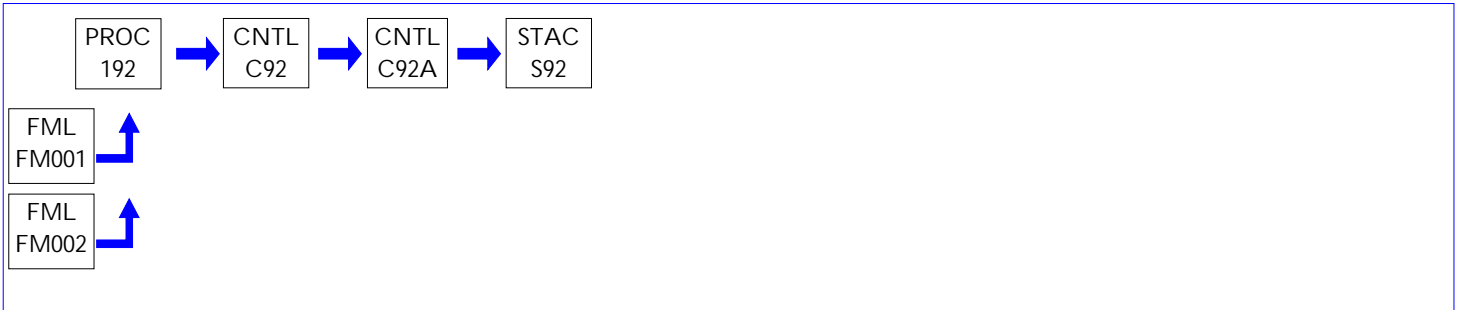
Source Name: A-1 BURN &amp; STACK (SCIENTIFIC FC 5)

Source Capacity/Throughput:

200.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

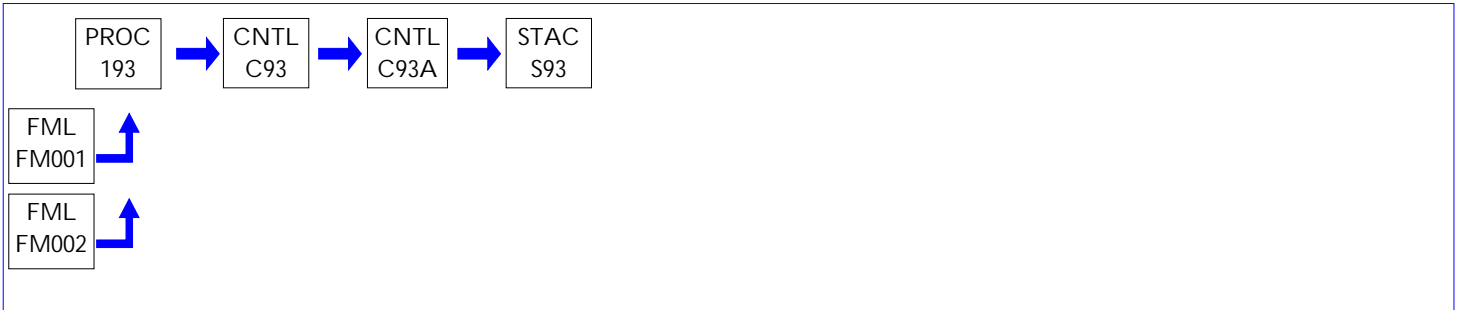
**SECTION D. Source Level Requirements**

Source ID: 193

Source Name: A-2 GROUP ASSEMBLY 1 (SCIENTIFIC FC 5)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

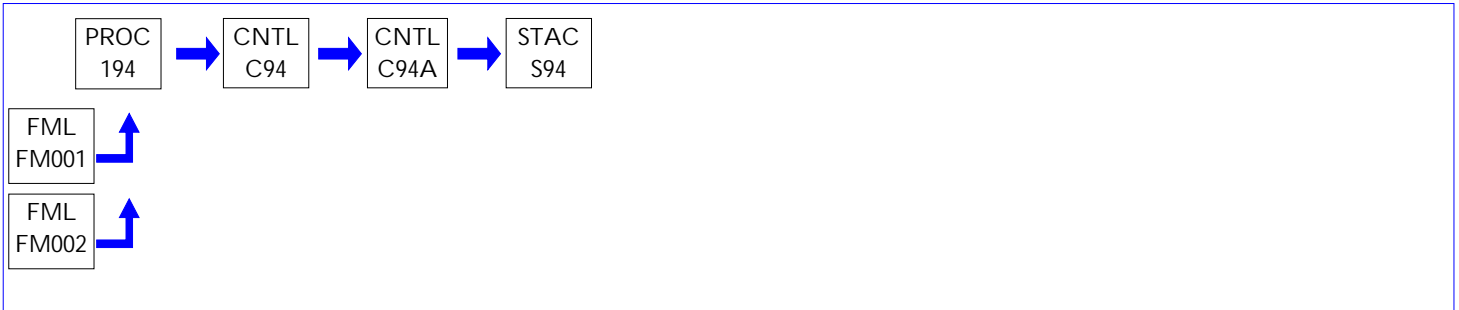
**SECTION D. Source Level Requirements**

Source ID: 194

Source Name: A-2 GROUP ASSEMBLY 2 (SCIENTIFIC FC 6)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

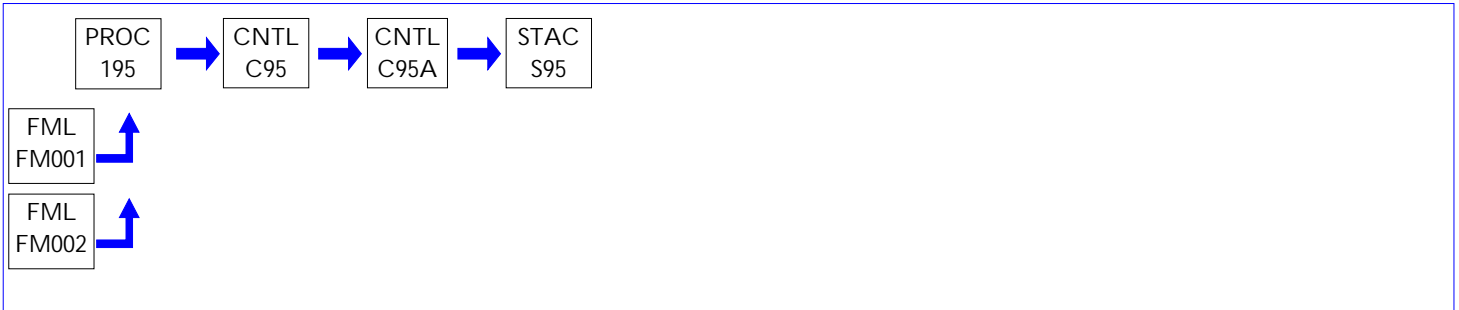
**SECTION D. Source Level Requirements**

Source ID: 195

Source Name: A-2 GROUP ASSEMBLY 3 (SCIENTIFIC FC 7)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



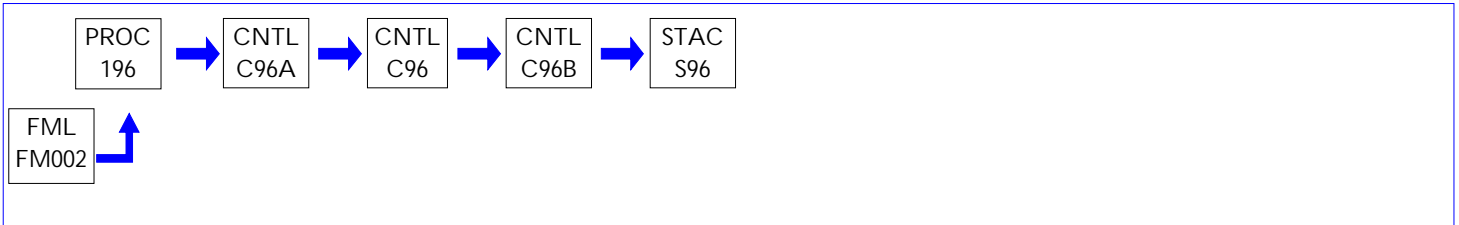
**SECTION D. Source Level Requirements**

Source ID: 196

Source Name: LEAD OXIDE MILL 11

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

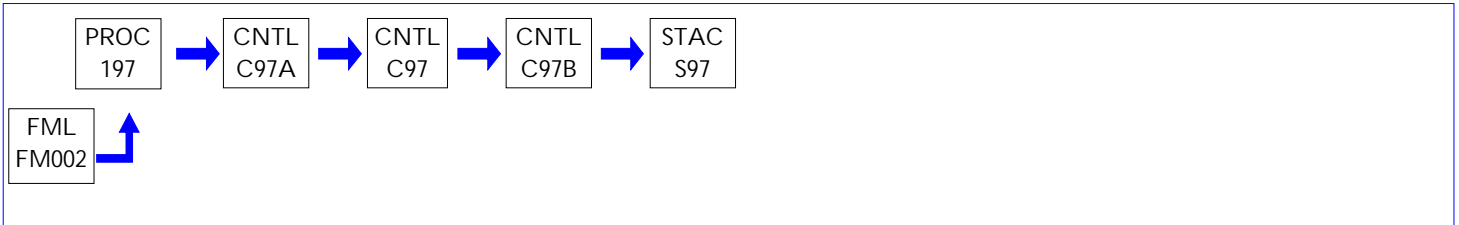
**SECTION D. Source Level Requirements**

Source ID: 197

Source Name: LEAD OXIDE MILL 12

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

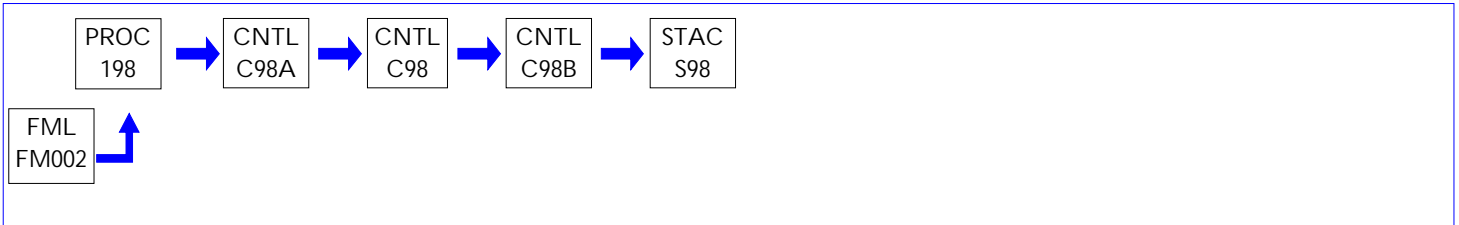
**SECTION D. Source Level Requirements**

Source ID: 198

Source Name: LEAD OXIDE MILL 13

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

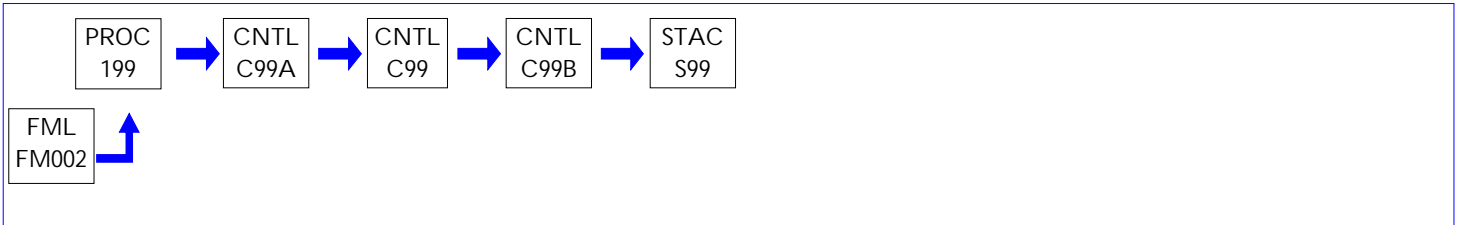
**SECTION D. Source Level Requirements**

Source ID: 199

Source Name: LEAD OXIDE MILL 14

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

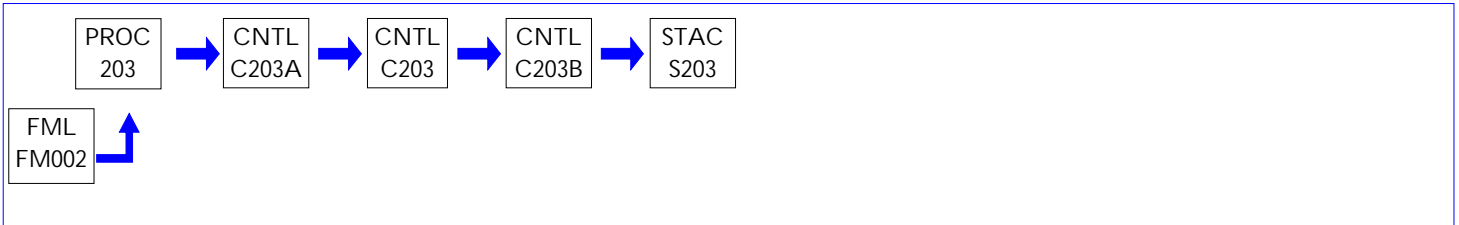
**SECTION D. Source Level Requirements**

Source ID: 203

Source Name: LEAD OXIDE MILL 15

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

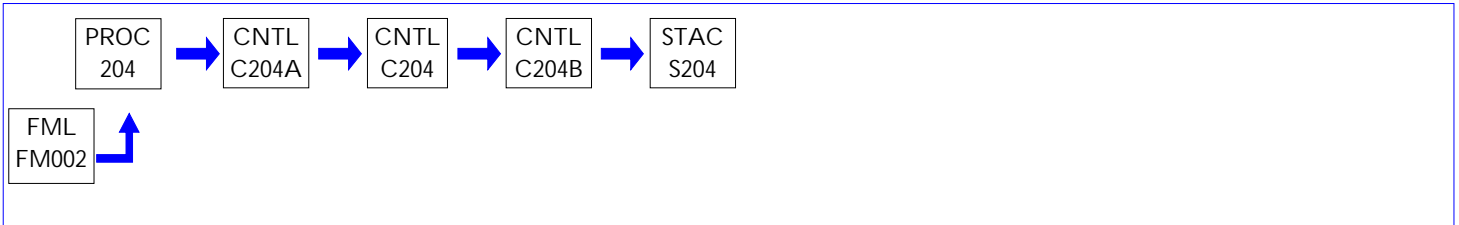
**SECTION D. Source Level Requirements**

Source ID: 204

Source Name: LEAD OXIDE MILL 16

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

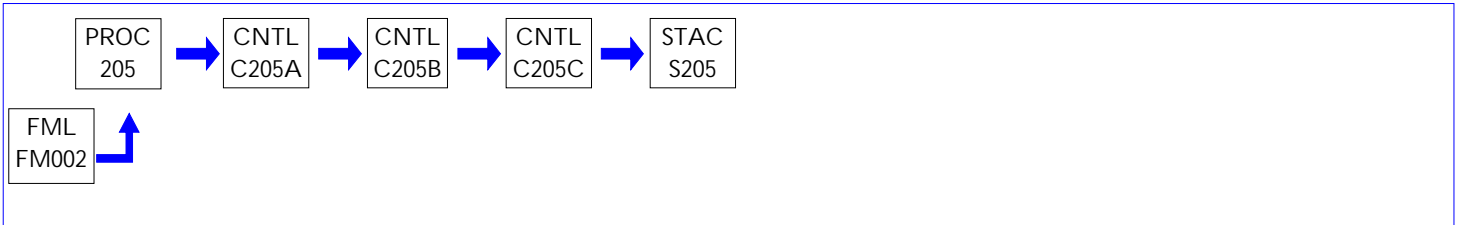
**SECTION D. Source Level Requirements**

Source ID: 205

Source Name: LEAD OXIDE MILL 17

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

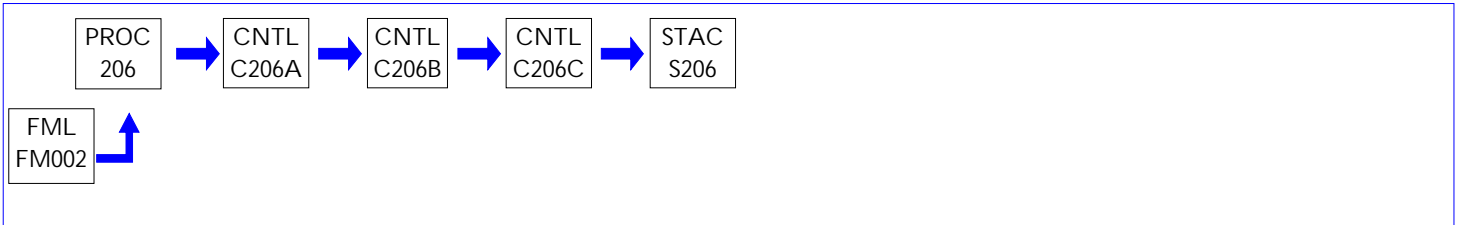
**SECTION D. Source Level Requirements**

Source ID: 206

Source Name: LEAD OXIDE MILL 18

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



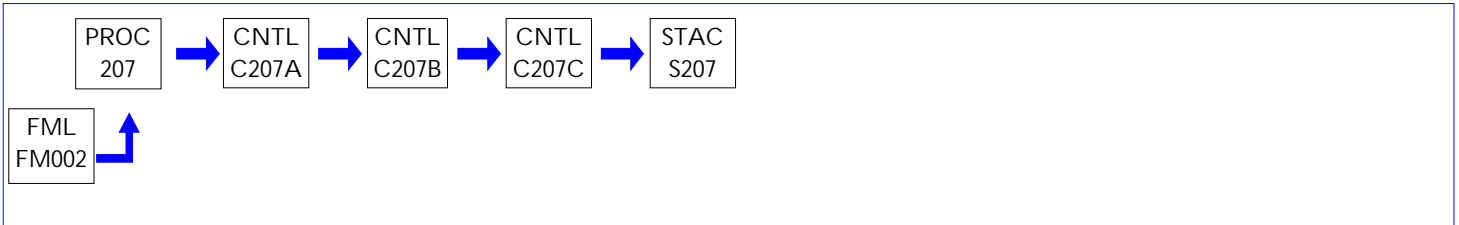
**SECTION D. Source Level Requirements**

Source ID: 207

Source Name: LEAD OXIDE MILL 19

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

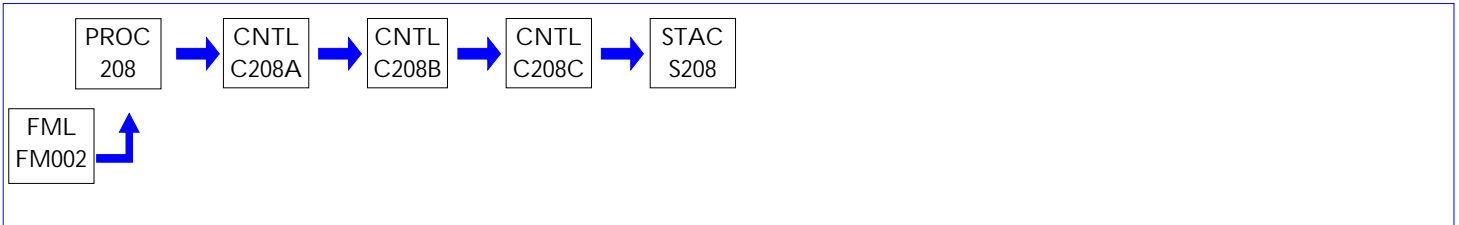
**SECTION D. Source Level Requirements**

Source ID: 208

Source Name: LEAD OXIDE MILL 20

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 210

Source Name: WTP SALT DRYER

Source Capacity/Throughput: 0.961 MMBTU/HR

961.000 CF/HR

NATURAL GAS

1,953.000 Lbs/HR

SALT (WET)

Conditions for this source occur in the following groups: SG 07 WASTE WATER TP

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

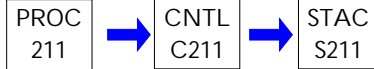
**SECTION D. Source Level Requirements**

Source ID: 211

Source Name: WTP SALT TRUCK LOADOUT OPERATION

Source Capacity/Throughput: 1,953.000 Lbs/HR SALT (WET)

Conditions for this source occur in the following groups: SG 07 WASTE WATER TP

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 212

Source Name: WTP SALT STORAGE SILOS

Source Capacity/Throughput: 30,000.000 Lbs/HR SALT (DRY)

Conditions for this source occur in the following groups: SG 07 WASTE WATER TP

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

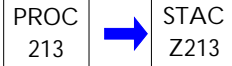
**SECTION D. Source Level Requirements**

Source ID: 213

Source Name: MISCELLANEOUS CHEM

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 10 RACT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

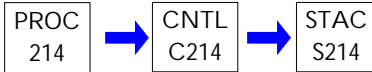
**SECTION D. Source Level Requirements**

Source ID: 214

Source Name: SPRAY BOOTH- CENTRAL MAINT PAINT BOOTH

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 10 RACT

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not permit the emission to the atmosphere of particulate matter from either source in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall record the following information for waste coatings, solvents or mixtures sent off-site for recycling or disposal:

- Pounds and gallons per month of waste coating, solvents or mixtures shipped from the facility,
- Waste profile or sampling data for each shipment, and
- Identification of the waste disposal company for each shipment.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).



## SECTION D. Source Level Requirements

\*\*\* Permit Shield in Effect. \*\*\*



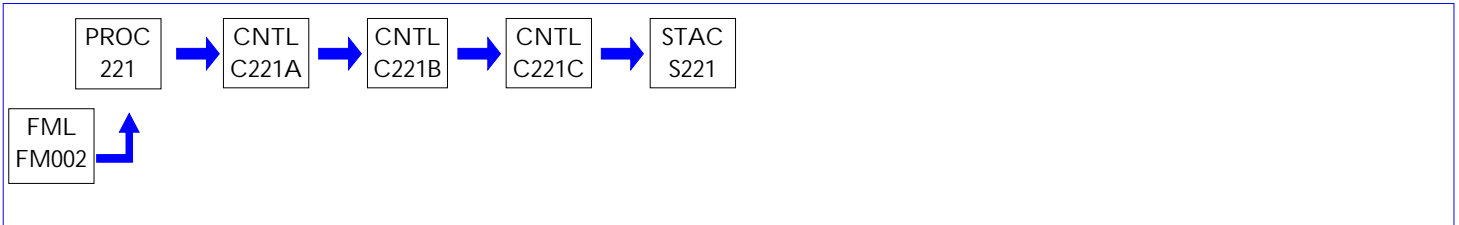
**SECTION D. Source Level Requirements**

Source ID: 221

Source Name: LEAD OXIDE MILL NO. 21

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

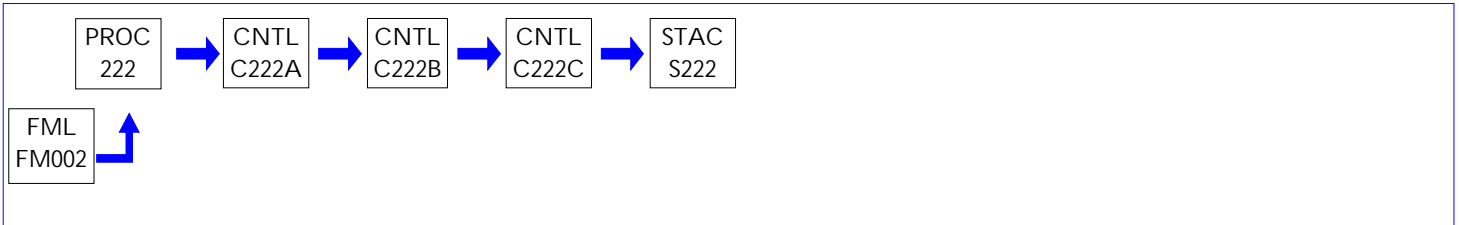
**SECTION D. Source Level Requirements**

Source ID: 222

Source Name: LEAD OXIDE MILL NO. 22

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

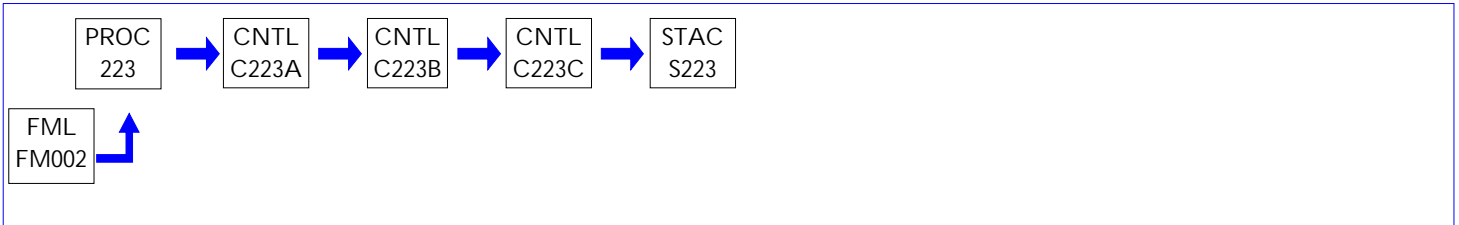
**SECTION D. Source Level Requirements**

Source ID: 223

Source Name: LEAD OXIDE MILL NO. 23

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

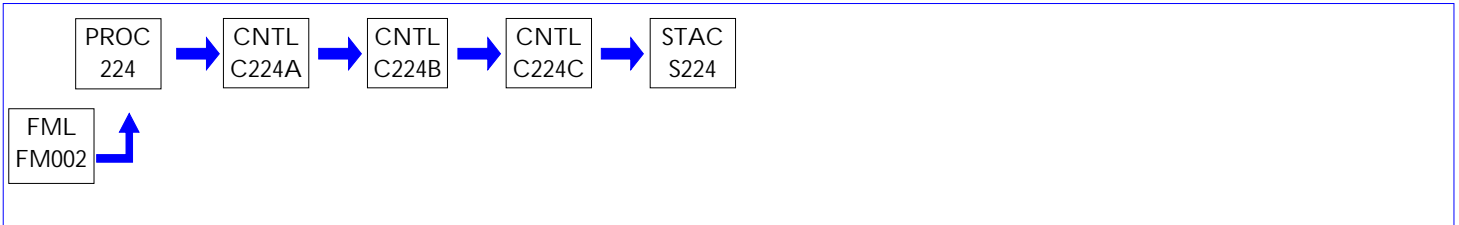
**SECTION D. Source Level Requirements**

Source ID: 224

Source Name: LEAD OXIDE MILL NO. 24

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

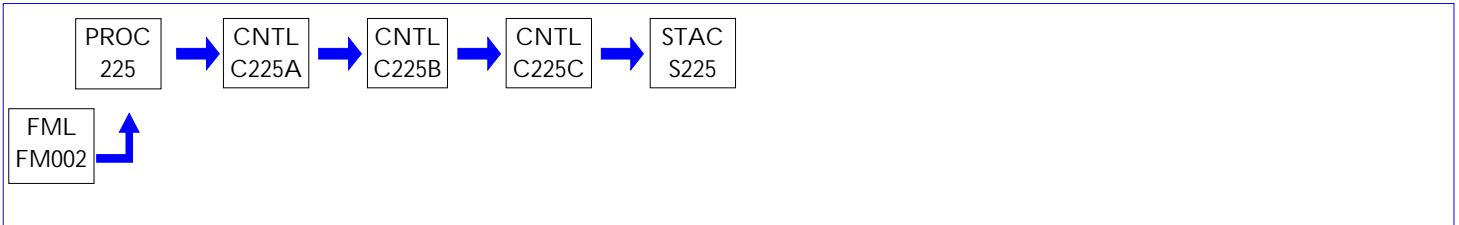
**SECTION D. Source Level Requirements**

Source ID: 225

Source Name: LEAD OXIDE MILL NO. 25

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

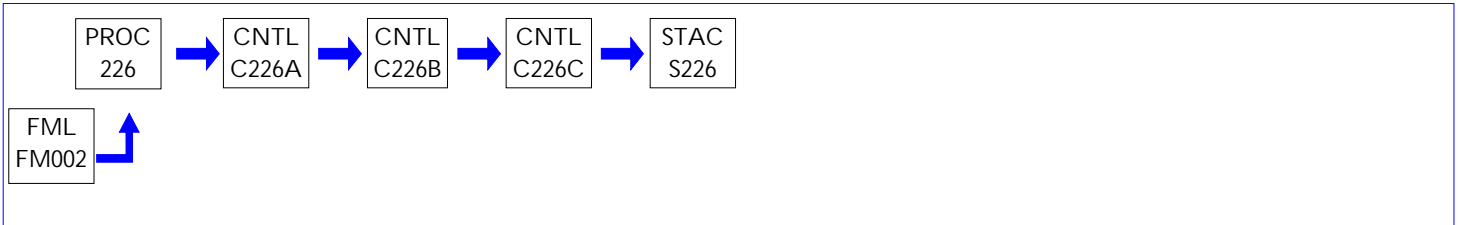
**SECTION D. Source Level Requirements**

Source ID: 226

Source Name: LEAD OXIDE MILL NO. 26

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

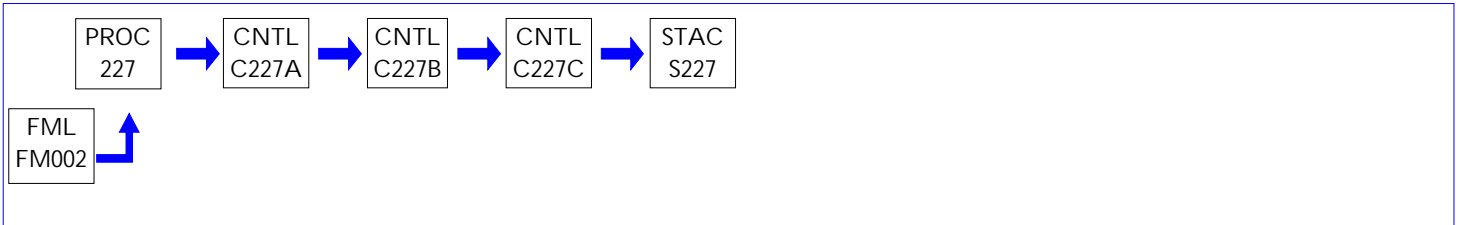
**SECTION D. Source Level Requirements**

Source ID: 227

Source Name: LEAD OXIDE MILL NO. 27

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

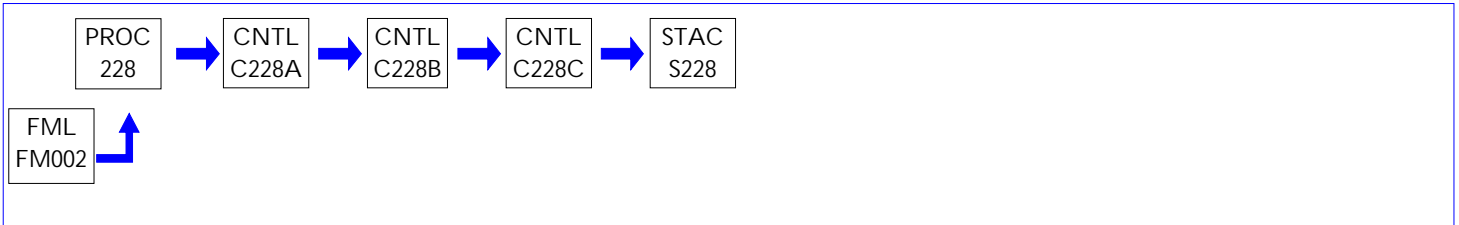
**SECTION D. Source Level Requirements**

Source ID: 228

Source Name: LEAD OXIDE MILL NO. 28

Source Capacity/Throughput: 2,600.000 Lbs/HR  
750.000 CF/HRLEAD OXIDE  
NATURAL GAS

Conditions for this source occur in the following groups: SG 05 OXIDE PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



**SECTION D. Source Level Requirements**

Source ID: 301

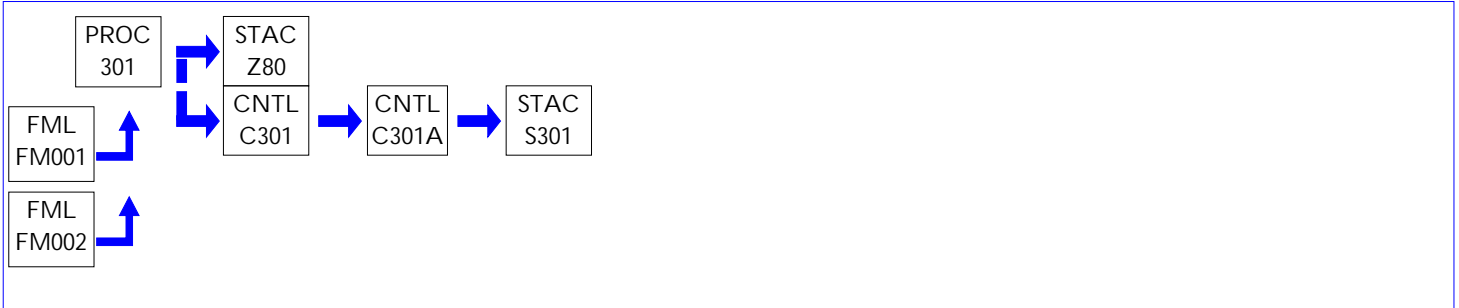
Source Name: S-1A BATT ASSEMBLY ANNEX (SCIENTIFIC FC 6)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 302

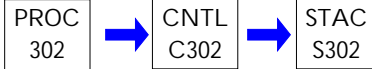
Source Name: S-1A FORMATION ANNEX (3 MIST ELIM)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 303

Source Name: S-1 SILICON DIOXIDE SILO (1 BIN VENT)

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the particulate emissions to the outdoor atmosphere to 0.01 grains per dry standard cubic foot.

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The operation of the silo shall not result in visible emissions to the outdoor atmosphere.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall periodically read and record the pressure drop across the bin vent during the loading of the silo. The frequency of these readings shall be monthly, except as provided in Section C, Condition 012.

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall record all monitoring and inspection results in a manner approved by the Department.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

**SECTION D. Source Level Requirements**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across the bin vent can be measured.

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Annually the permittee shall inspect the silo and bin vent for the following:

- a. Wear and damage
- b. Removal of collected material
- c. Fugitive emissions
- d. Cleaning cycles

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

\*\*\* Permit Shield in Effect. \*\*\*

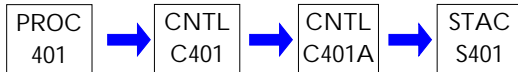
## SECTION D. Source Level Requirements

Source ID: 401

Source Name: A-4 LEAD OXIDE STORAGE SILOS (9) (BIN VENTS)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

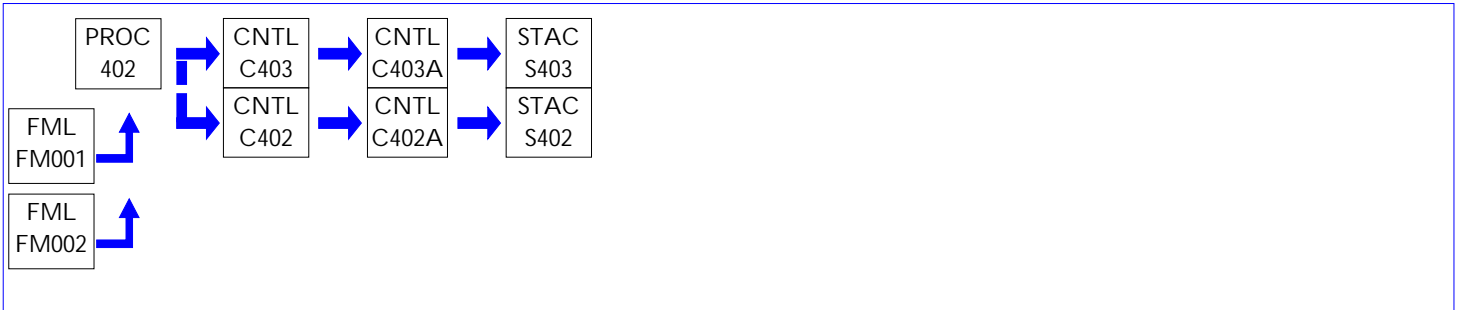
**SECTION D. Source Level Requirements**

Source ID: 402

Source Name: A-4 MIXING (SCIEN #6) &amp; PASTING (SCIEN #1)

Source Capacity/Throughput: 4.800 MMBTU/HR

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

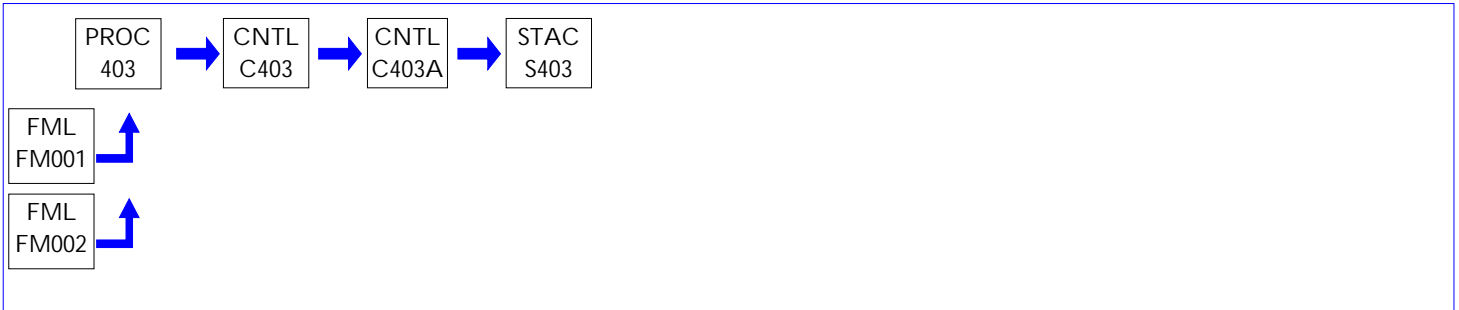
**SECTION D. Source Level Requirements**

Source ID: 403

Source Name: A-4 GRIDCASTING (SCIEN FC #2)

Source Capacity/Throughput: 10.000 MMBTU/HR

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

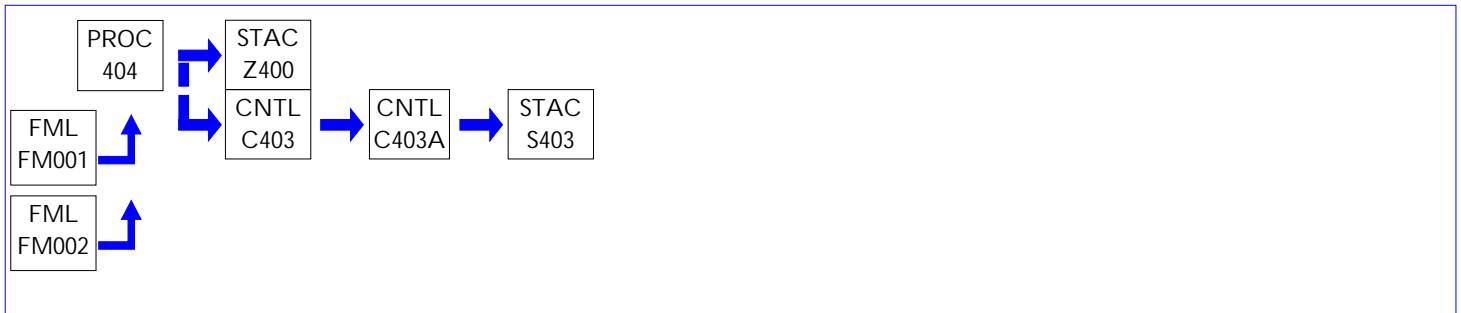
**SECTION D. Source Level Requirements**

Source ID: 404

Source Name: A-4 CONCASTING (SCIEN FC #2)

Source Capacity/Throughput: 2.000 MMBTU/HR

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT  
SG 10 RACT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



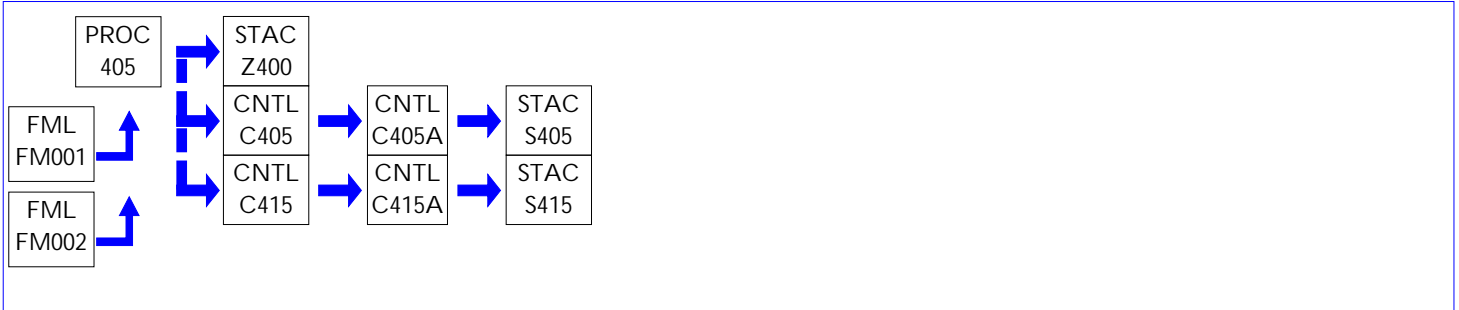
**SECTION D. Source Level Requirements**

Source ID: 405

Source Name: A-4 THREE-PROCESS-OPR (SCIEN FC #3 &amp; #4)

Source Capacity/Throughput: 0.800 MMBTU/HR

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

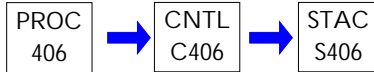
**SECTION D. Source Level Requirements**

Source ID: 406

Source Name: A-4 BATTERY FORMATION (9) (MIST ELIM)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

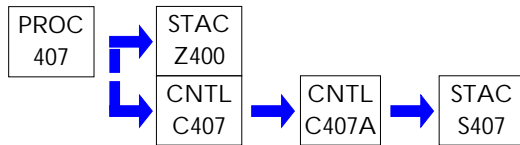
**SECTION D. Source Level Requirements**

Source ID: 407

Source Name: A-4 BATT ASSEMBLY LINES (SCIEN FC #5)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 502

Source Name: A-2 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)

Source Capacity/Throughput: 1,100.000 Each/HR STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 503

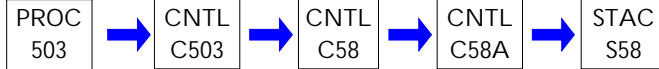
Source Name: A-2 RED LEAD OXIDE STORAGE SILO (BIN VENT)

Source Capacity/Throughput:

10.000 Tons/HR

LEAD OXIDE RED

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 504

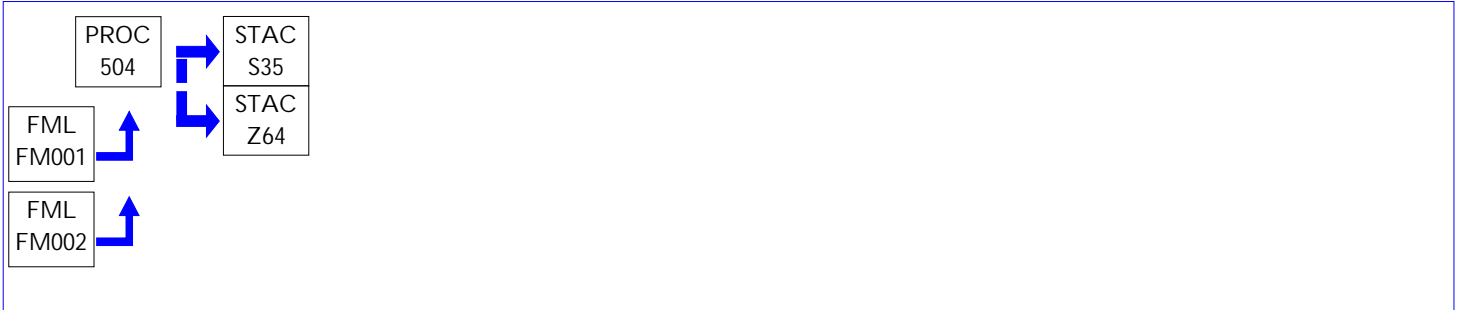
Source Name: A-1 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)

Source Capacity/Throughput:

200.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 505

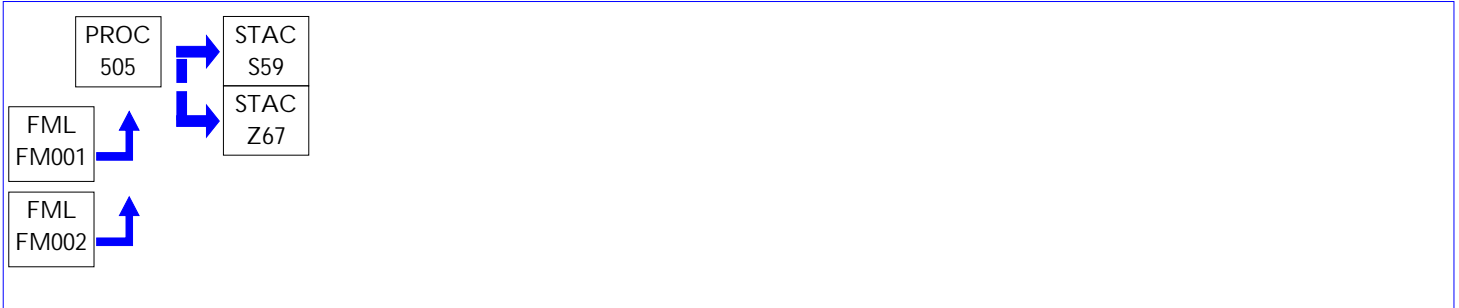
Source Name: A-3 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)

Source Capacity/Throughput:

500.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

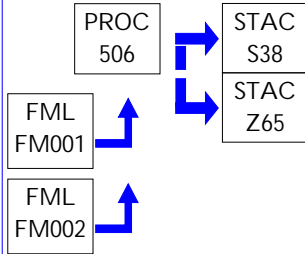
**SECTION D. Source Level Requirements**

Source ID: 506

Source Name: IND SMALL PARTS CASTING (FUGITIVE/UNCONTROL)

Source Capacity/Throughput: 120.000 Each/HR BATTERY CELLS

Conditions for this source occur in the following groups: SG 04 IND BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*



**SECTION D. Source Level Requirements**

Source ID: 507

Source Name: S-1 SMALL PART CASTING (FUGITIVE/UNCONT)

Source Capacity/Throughput:

300.000 Each/HR

STORAGE BATTERIES

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

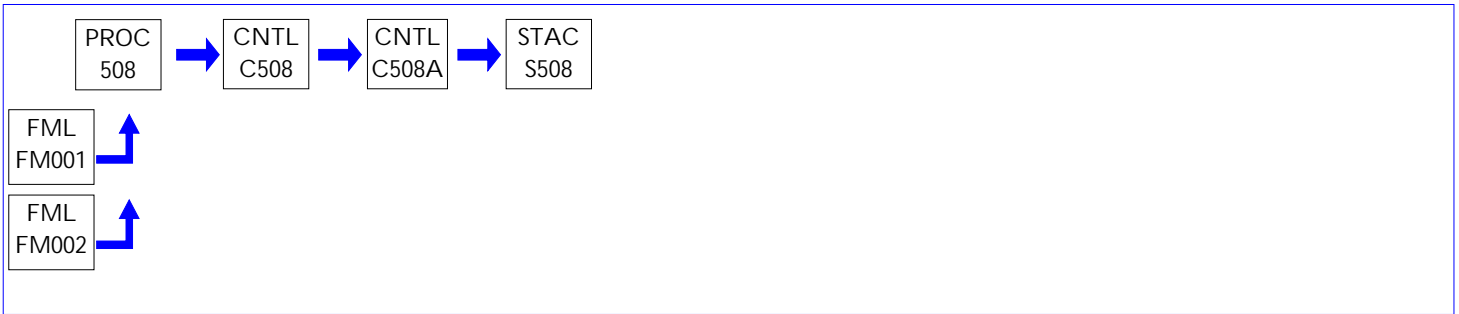
**SECTION D. Source Level Requirements**

Source ID: 508

Source Name: A-2 COS/ENVELOPE/CONCAST (SCIEN 10)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 511

Source Name: A-1 HEAT SEAL BOOTHS #1-4

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 01 A-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 512

Source Name: A-2 HEAT SEAL BOOTHS #1- 8

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 02 A-2 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

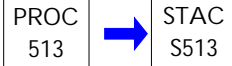
**SECTION D. Source Level Requirements**

Source ID: 513

Source Name: A-3 HEAT SEAL BOOTHS #1 - 3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 03 A-3 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 514

Source Name: S-1 HEAT SEAL BOOTHS #1-3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 06 S-1 BATTERY ASSEMBLY

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 515

Source Name: MOLDING HEAT SEAL BOOTHS A-K: FIBER BEDS OR EQIV APPRVD CTRL

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the particulate emissions from the sealing operation to:

- a. Operations A through G - 0.02 grains per dry standard cubic foot
- b. Operations H through K - 0.0075 grains per dry standard cubic foot

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain records of the monthly inspections of the filters including the results of the inspections and any actions.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall periodically conduct a visible inspection of each of the fiberglass filters. Any damaged or non-functioning filters shall be replaced. The frequency of these inspections shall be monthly, except as provided in Section C, Condition 012.



## SECTION D. Source Level Requirements

### VII. ADDITIONAL REQUIREMENTS.

# 004 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The fiber bed method of control may be changed to an equivalent method upon receipt of written approval from the Department. The permittee may request such approval via an RFD. If the RFD is denied, the permittee must use a plan approval application to request the change.

\*\*\* Permit Shield in Effect. \*\*\*



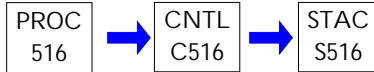
**SECTION D. Source Level Requirements**

Source ID: 516

Source Name: A-4 HEAT SEAL BOOTHS 1 - 5: FIBER BEDS OR EQIV APPRVD CTRL

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 08 A-4 BATTERY ASSEMBLY PLANT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The fiber bed method of control may be changed to an equivalent method upon receipt of written approval from the Department. The permittee may request such approval via an RFD. If the RFD is denied, the permittee must use a plan approval application to request the change.

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 601

Source Name: EMERGENCY GENERATORS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 09 SUBPART ZZZZ

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall limit the emissions of particulate matter to the outdoor atmosphere from each generator in a manner that the concentration of particulate matter in the effluent gas does not exceed 0.04 grain per dry standard cubic foot.

# 002 [25 Pa. Code §123.21]

**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**Operation Hours Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 Pa Code Section 129.91]

The permittee shall limit the operating time of each generator to 500 hours during any consecutive 12-month period.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

## SECTION D. Source Level Requirements

### IV. RECORDKEEPING REQUIREMENTS.

# 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for parts of this condition are derived from 25 Pa Code Section 129.91]

The permittee shall maintain the following records for the emergency generators:

- a. Monthly fuel consumption for each unit
- b. Type of fuel
- c. Heating value of each fuel (BTU)
- d. Hours of operation for each unit

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emergency generators shall only be used during electrical failures or to perform preventative maintenance. The emergency generators shall not be used to supplement the primary power supply to the facility.

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

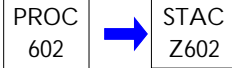
\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: 602

Source Name: COLD CLEANERS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §129.63]

**Degreasing operations**

The permittee shall not use in a cold cleaning machine that uses 2 gallons or more of solvents, any solvent with greater than 5% VOC by weight, and that has a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater measured at 20°C (68°F).

The above requirement does not apply:

- To cold cleaning machines used in extreme cleaning service.
- If the permittee demonstrates, and the Department approves in writing, that compliance with these conditions will result in unsafe operating conditions.
- To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

# 002 [25 Pa. Code §129.63]

**Degreasing operations**

Any immersion cold cleaning machine shall have a freeboard ratio of 0.50 or greater.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §129.63]

**Degreasing operations**

The permittee shall maintain an inventory of the cold cleaning machines used at the facility. The inventory shall be updated each January. The inventory shall include the following information:

- Type of unit
- Size of the unit in gallons of solvent
- Name of solvent used
- Freeboard ratio

**SECTION D. Source Level Requirements****e. Location of the unit at the facility**

The permittee shall maintain for at least two (2) years and shall provide to the Department, on request, the following information:

- a. The name and address of the solvent supplier.
- b. Type of solvent including the product or vendor identification number.
- c. The vapor pressure of the solvent measured in millimeters of mercury (mmHg) at 20°C (68°F).

An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 004 [25 Pa. Code §129.63]

**Degreasing operations**

The immersion cold cleaning machine shall be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than six (6) inches shall constitute an acceptable cover.

# 005 [25 Pa. Code §129.63]

**Degreasing operations**

The permittee shall for immersion cold cleaning machines and remote reservoir cold cleaning machines:

- a. Have a permanent, conspicuous label summarizing the operating requirements below:
  - 1. Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
  - 2. Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
  - 3. Sponge, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cleaning machine.
  - 4. Air agitated solvent baths may not be used.
  - 5. Spills during solvent transfer and use of cold cleaning machines shall be cleaned-up immediately.
- b. In addition, the label shall include the following discretionary good practices:
  - 1. Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts

## SECTION D. Source Level Requirements

should be positioned so that the solvent drains directly back to the cold cleaning machine.

2. When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.
3. Work area fans should be located and positioned so that they do not blow across the opening of the cold cleaning machine.

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION D. Source Level Requirements

Source ID: 603

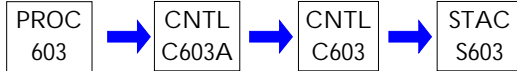
Source Name: SMALL PARTS COATING OPERATION

Source Capacity/Throughput:

3.510 Lbs/HR

PERCHLOROETHYLENE

Conditions for this source occur in the following groups: SG 10 RACT



### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3890]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What emission limits must I meet?

The permittee shall limit the emissions of organic Hazardous Air Pollutants (HAP) from the coating operation to 2.6 pounds of HAPs per gallon of coating solids used during each 12-month compliance period.

### II. TESTING REQUIREMENTS.

# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3964]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What are the general requirements for performance tests?

The permittee shall conduct any performance testing according to the requirements in 40 CFR Section 63.7(e)(1) and according to this condition, unless the permittee obtains a waiver of the performance test according to the provisions in 40 CFR Section 63.7 (h).

a. The permittee must conduct any performance test under representative operating conditions for the coating operation. Operations during periods of startup, shutdown or malfunction and during periods of nonoperation do not constitute representative conditions. The permittee must record the process information that is necessary to document operating conditions during the test and explain why the conditions represent normal operation.

b. The permittee must conduct any performance test when the emission capture system and add-on control device are operating at a representative flow rate, and the add-on control device is operating at a representative inlet concentration. The permittee must record information that is necessary to document emission capture system and add-on control device operating conditions during the test and explain why the conditions represent normal operation.

The permittee must conduct each performance test of an emission capture system according to the requirements in this permit. The permittee must conduct each performance test of an add-on control device according to the requirements in this permit.

# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3965]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

How do I determine the emission capture system efficiency?

## SECTION D. Source Level Requirements

The permittee must use the procedures and test methods in this section to determine the capture efficiency as part of any performance testing required by this permit, the Department and/or MACT.

a. The permittee may assume the capture system efficiency is 100 percent if both of the conditions in the paragraphs below are met:

1. The capture system meets the criteria in Method 204 of Appendix M to 40 CFR Part 51 for a PTE and directs all the exhaust gases from the enclosure to an add-on control device.

2. All coatings, thinners and/or other additives, and cleaning materials used in the coating operation are applied within the capture system; coating solvent flash-off, curing, and drying occurs within the capture system; and the removal or evaporation of cleaning materials from the surfaces they are applied to occur within the capture system. For example, this criterion is not met if parts enter the open shop environment when being moved between a spray and curing oven.

# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3966]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

How do I determine the add-on control device emission destruction or removal efficiency?

The permittee must use the procedures and test methods in this condition to determine the add-on control device emission destruction or removal efficiency as part of the performance any test required by this permit. The permittee must conduct three test runs as specified in 40 CFR Section 63.7(e)(3) and each test run must last at least one hour. Any changes to this testing must be approved by the Department in writing prior to any testing.

a. For all types of add-on control devices, use the test methods specified below:

1. Use Method 1 or 1A of Appendix A to 40 CFR Part 60, as appropriate, to select sampling sites and velocity traverse points.

2. Use Method 2, 2A, 2C, 2D, 2F, or 2G of Appendix A to 40 CFR Part 60, as appropriate, to measure gas volumetric flow rate.

3. Use Method 3, 3A, or 3B of the Appendix A to 40 CFR Part 60, as appropriate, for gas analysis to determine dry molecular weight.

4. Use Method 4 of Appendix A to 40 CFR Part 60, to determine stack gas moisture.

5. Methods for determining gas volumetric flow rate, dry molecular weight, and stack gas moisture must be performed, as applicable, during the test run.

b. Measure total gaseous organic mass emissions as carbon at the inlet and outlet of the add-on control device simultaneously, using Method 25A of Appendix A to 40 CFR Part 60.

c. For each test run, determine the total gaseous organic emissions mass flow rate for the inlet and the outlet of the add-on control device, using Equation 1 of this condition. If there is more than one inlet or outlet to the add-on control device, the permittee must calculate the total gaseous organic mass flow rate using Equation 1 of this condition for each inlet and each outlet and then total all of the inlet emissions and total all of the outlet emissions:

$$Mf = Qsd \times Cc \times (12) \times (0.0416) \times (0.000001) \quad (\text{Equation 1})$$

Where:



## SECTION D. Source Level Requirements

Mf - Total gaseous organic emissions mass flow rate, kilograms per hour (kg/h).

Cc = Concentration of organic compounds as carbon in the vent gas, as determined by methods above, parts per million by volume (ppmv), dry basis.

Qsd = Volumetric flow rate of gases entering or exiting the add-on control device, as determined by methods above, dry standard cubic meters per hour (dscm/h).

0.0416 = Conversion factor for molar volume, kg-moles per cubic meter (kg-mol/m<sup>3</sup>) [@293 Kelvin (K) and 760 millimeters of mercury (mmHg)].

d. For each test run, determine the add-on control device organic emissions destruction or removal efficiency, using Equation 2 of this condition:

$$\text{DRE} = [(M_{fi} - M_{fo}) / M_{fi}] \times 100 \quad (\text{Equation 2})$$

Where:

DRE = Organic emissions destruction or removal efficiency of the add-on control device, percent.

M<sub>fi</sub> = Total gaseous organic emissions mass flow rate at the inlet(s) to the add-on control device, using Equation 1 of this condition, kg/h.

M<sub>fo</sub> = Total gaseous organic emissions mass flow rate at the outlet(s) of the add-on control device, using Equation 1 of this condition, kg/h.

e. Determine the emission destruction or removal efficiency of the add-on control device as the average of the efficiencies determined in the three test runs and calculated in equation 2 of this condition.

### III. MONITORING REQUIREMENTS.

# 005 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall maintain an amp meter on the exhaust fan that continuously measures the power usage by the fan during operation. The power usage in amps shall be recorded once every 15 minutes of operation. Each reading shall be recorded by the permittee.

# 006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall periodically read and record the pressure drop across each dry filter. The frequency of these readings shall be monthly, except as provided in Section C, Condition 012.

# 007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall periodically read and record the pressure drop across the primary canister of the control device. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012.

# 008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall periodically monitor for carbon breakthrough on the control device. The frequency of this monitoring shall be twice per week, except as provided in Section C, Condition 012. The monitoring shall include the measurement of

## SECTION D. Source Level Requirements

the amount of perchloroethylene in the exhaust streams at two points:

- a. Exiting the lead (primary) carbon canister
- b. Exiting the lag (secondary) carbon canister

If perchloroethylene is detected exiting the lead canister, the permittee shall resample within 24 hours of the first sample.

If perchloroethylene is detected exiting the lag carbon canister, the permittee shall conduct daily sampling until the canisters are replaced and refilled.

The monitoring shall be with colorimetric detector tubes (Dräger or equivalent) approved by the Department. If the permittee experiences difficulties with this technique of monitoring, it should be prepared to utilize a different method. The change in monitoring shall be reported to the Department within three (3) days.

The permittee shall record the date, time and results of each monitoring.

### IV. RECORDKEEPING REQUIREMENTS.

# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3930]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What records must I keep?

You must collect and keep records of the data and information specified in this section. Failure to collect and keep these records is a deviation from the applicable standard.

(a) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. If you are using the predominant activity alternative under §63.3890(c), you must keep records of the data and calculations used to determine the predominant activity. If you are using the facility-specific emission limit alternative under §63.3890(c), you must keep records of the data used to calculate the facility-specific emission limit for the initial compliance demonstration. You must also keep records of any data used in each annual predominant activity determination and in the calculation of the facility-specific emission limit for each 12-month compliance period included in the semi-annual compliance reports.

(b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. If you conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, you must keep a copy of the complete test report. If you use information provided to you by the manufacturer or supplier of the material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier. You are not required to obtain the test report or other supporting documentation from the manufacturer or supplier.

(c) For each compliance period, the records specified in paragraphs (c)(1) through (4) of this section.

(1) A record of the coating operations on which you used each compliance option and the time periods (beginning and ending dates and times) for each option you used.

(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of §63.3941.

(3) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of §63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials

**SECTION D. Source Level Requirements**

according to §63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of §63.3951; and the calculation of each 12-month organic HAP emission rate using Equation 3 of §63.3951.

(4) For the emission rate with add-on controls option, records of the calculations specified in paragraphs (c)(4)(i) through (v) of this section.

(i) The calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.3951 and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4);

(ii) The calculation of the total volume of coating solids used each month using Equation 2 of §63.3951;

(iii) The calculation of the mass of organic HAP emission reduction by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961 and Equations 2, 3, and 3A through 3C of §63.3961, as applicable;

(iv) The calculation of each month's organic HAP emission rate using Equation 4 of §63.3961; and

(v) The calculation of each 12-month organic HAP emission rate using Equation 5 of §63.3961.

(d) A record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If you are using the compliant material option for all coatings at the source, you may maintain purchase records for each material used rather than a record of the volume used.

(e) A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight.

(f) A record of the volume fraction of coating solids for each coating used during each compliance period.

(g) If you use either the emission rate without add-on controls or the emission rate with add-on controls compliance option, the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period.

(h) If you use an allowance in Equation 1 of §63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to §63.3951(e)(4), you must keep records of the information specified in paragraphs (h)(1) through (3) of this section.

(1) The name and address of each TSDF to which you sent waste materials for which you use an allowance in Equation 1 of §63.3951; a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment.

(2) Identification of the coating operations producing waste materials included in each shipment and the month or months in which you used the allowance for these materials in Equation 1 of §63.3951.

(3) The methodology used in accordance with §63.3951(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.

(i) [Reserved]

(j) You must keep records of the date, time, and duration of each deviation.

**SECTION D. Source Level Requirements**

- (k) If you use the emission rate with add-on controls option, you must keep the records specified in paragraphs (k)(1) through (8) of this section.
- (1) For each deviation, a record of whether the deviation occurred during a period of startup, shutdown, or malfunction.
- (2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
- (3) The records required to show continuous compliance with each operating limit specified in Table 1 to this subpart that applies to you.
- (4) For each capture system that is a PTE, the data and documentation you used to support a determination that the capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a PTE and has a capture efficiency of 100 percent, as specified in §63.3965(a).
- (5) For each capture system that is not a PTE, the data and documentation you used to determine capture efficiency according to the requirements specified in §§63.3964 and 63.3965(b) through (e), including the records specified in paragraphs (k)(5)(i) through (iii) of this section that apply to you.
- (i) Records for a liquid-to-uncaptured gas protocol using a temporary total enclosure or building enclosure. Records of the mass of total volatile hydrocarbon (TVH) as measured by Method 204A or 204F of appendix M to 40 CFR part 51 for each material used in the coating operation, and the total TVH for all materials used during each capture efficiency test run, including a copy of the test report. Records of the mass of TVH emissions not captured by the capture system that exited the temporary total enclosure or building enclosure during each capture efficiency test run, as measured by Method 204D or 204E of appendix M to 40 CFR part 51, including a copy of the test report. Records documenting that the enclosure used for the capture efficiency test met the criteria in Method 204 of appendix M to 40 CFR part 51 for either a temporary total enclosure or a building enclosure.
- (ii) Records for a gas-to-gas protocol using a temporary total enclosure or a building enclosure. Records of the mass of TVH emissions captured by the emission capture system as measured by Method 204B or 204C of appendix M to 40 CFR part 51 at the inlet to the add-on control device, including a copy of the test report. Records of the mass of TVH emissions not captured by the capture system that exited the temporary total enclosure or building enclosure during each capture efficiency test run as measured by Method 204D or 204E of appendix M to 40 CFR part 51, including a copy of the test report. Records documenting that the enclosure used for the capture efficiency test met the criteria in Method 204 of appendix M to 40 CFR part 51 for either a temporary total enclosure or a building enclosure.
- (iii) Records for an alternative protocol. Records needed to document a capture efficiency determination using an alternative method or protocol as specified in §63.3965(e), if applicable.
- (6) The records specified in paragraphs (k)(6)(i) and (ii) of this section for each add-on control device organic HAP destruction or removal efficiency determination as specified in §63.3966.
- (i) Records of each add-on control device performance test conducted according to §§63.3964 and 63.3966.
- (ii) Records of the coating operation conditions during the add-on control device performance test showing that the performance test was conducted under representative operating conditions.
- (7) Records of the data and calculations you used to establish the emission capture and add-on control device operating limits as specified in §63.3967 and to document compliance with the operating limits as specified in Table 1 to this subpart.
- (8) A record of the work practice plan required by §63.3893 and documentation that you are implementing the plan on a continuous basis.

**SECTION D. Source Level Requirements**

# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3931]

Subpart MMMM - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

In what form and for how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). You may keep the records off-site for the remaining 3 years.

# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6]

Subpart A--General Provisions

Compliance with standards and maintenance requirements.

When actions taken by the permittee during a start-up, shutdown or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the sources start-up, shutdown and malfunction plan (SSM), the permittee shall keep records for the event that demonstrate that the procedures specified in the plan were followed. these records may take the form of a "check list," or other effective form of record keeping, that confirms conformance with the SSM plan for the event. The permittee shall keep records of these events including records of the occurrence and duration of the start-up, shutdown or malfunction of the operation and each malfunction of the air pollution control device. The permittee shall confirm that actions taken during the relevant reporting period during the periods were consistent with the affected source's plan in the semiannual SSM report.

# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6]

Subpart A--General Provisions

Compliance with standards and maintenance requirements.

When actions taken by the permittee during a start-up, shutdown or malfunction (including actions taken to correct a malfunction) are not consistent with the procedures specified in the facility's start-up, shutdown and malfunction plan (SSM), the permittee shall keep records of the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR Part 63 (unless the permittee makes alternative reporting arrangements in advance).

**V. REPORTING REQUIREMENTS.**

# 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit to the Department a copy of the "Start-up, Shutdown and Malfunction Plan" within 30 days of the issuance of this permit or 30 days after the plan has been completed, unless the permittee has already done so. The permittee shall also submit any changes to the plan to the Department within 30 days of the changes.

# 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10]

Subpart A--General Provisions

Recordkeeping and reporting requirements.

## SECTION D. Source Level Requirements

The permittee shall include a "Start-up, Shutdown and Malfunction" report for the source with each semiannual report submitted to the Department unless no start-up, shutdown or malfunction occurred during the reporting period.

# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3920]

Subpart MMMM - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What reports must I submit?

(a) Semiannual compliance reports. You must submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (7) of this section. The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in paragraph (a)(2) of this section.

(1) Dates. Unless the Administrator has approved or agreed to a different schedule for submission of reports under §63.10(a), you must prepare and submit each semiannual compliance report according to the dates specified in paragraphs (a)(1)(i) through (iv) of this section. Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

(i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in §63.3940, §63.3950, or §63.3960 that applies to your affected source and ends on June 30 or December 31, whichever date is the first date following the end of the initial compliance period.

(ii) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(iii) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(iv) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the date specified in paragraph (a)(1)(iii) of this section.

(2) Inclusion with title V report. Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the semiannual compliance report includes all required information concerning deviations from any emission limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

(3) General requirements. The semiannual compliance report must contain the information specified in paragraphs (a)(3)(i) through (vii) of this section, and the information specified in paragraphs (a)(4) through (7) and (c)(1) of this section that is applicable to your affected source.

(i) Company name and address.

(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will

**SECTION D. Source Level Requirements**

be based on the last 12 months of data prior to the date of each monthly calculation.

(iv) Identification of the compliance option or options specified in §63.3891 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates for each option you used.

(v) If you used the emission rate without add-on controls or the emission rate with add-on controls compliance option (§63.3891(b) or (c)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.

(vi) If you used the predominant activity alternative (§63.3890(c)(1)), include the annual determination of predominant activity if it was not included in the previous semi-annual compliance report.

(vii) If you used the facility-specific emission limit alternative (§63.3890(c)(2)), include the calculation of the facility-specific emission limit for each 12-month compliance period during the 6-month reporting period.

(4) No deviations. If there were no deviations from the emission limitations in §§63.3890, 63.3892, and 63.3893 that apply to you, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. If you used the emission rate with add-on controls option and there were no periods during which the continuous parameter monitoring systems (CPMS) were out-of-control as specified in §63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out-of-control during the reporting period.

(5) Deviations: Compliant material option. If you used the compliant material option and there was a deviation from the applicable organic HAP content requirements in §63.3890, the semiannual compliance report must contain the information in paragraphs (a)(5)(i) through (iv) of this section.

(i) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used.

(ii) The calculation of the organic HAP content (using Equation 2 of §63.3941) for each coating identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).

(iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports).

(iv) A statement of the cause of each deviation.

(6) Deviations: Emission rate without add-on controls option. If you used the emission rate without add-on controls option and there was a deviation from the applicable emission limit in §63.3890, the semiannual compliance report must contain the information in paragraphs (a)(6)(i) through (iii) of this section.

(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.3890.

(ii) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. You must submit the calculations for Equations 1, 1A through 1C, 2, and 3 of §63.3951; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4). You do not need to submit background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).

**SECTION D. Source Level Requirements**

(iii) A statement of the cause of each deviation.

(7) Deviations: Emission rate with add-on controls option. If you used the emission rate with add-on controls option and there was a deviation from an emission limitation (including any periods when emissions bypassed the add-on control device and were diverted to the atmosphere), the semiannual compliance report must contain the information in paragraphs (a)(7)(i) through (xiv) of this section. This includes periods of startup, shutdown, and malfunction during which deviations occurred.

(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.3890.

(ii) The calculations used to determine the 12-month organic HAP emission rate for each compliance period in which a deviation occurred. You must provide the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of §63.3951; the calculation of the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961, and Equations 2, 3, and 3A through 3C of §63.3961, as applicable; the calculation of the total mass of organic HAP emissions each month using Equation 4 of §63.3961; and the calculation of the 12-month organic HAP emission rate using Equation 5 of §63.3961. You do not need to submit the background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).

(iii) The date and time that each malfunction started and stopped.

(iv) A brief description of the CPMS.

(v) The date of the latest CPMS certification or audit.

(vi) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.

(vii) The date, time, and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).

(viii) The date and time period of each deviation from an operating limit in Table 1 to this subpart; date and time period of any bypass of the add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(ix) A summary of the total duration of each deviation from an operating limit in Table 1 to this subpart and each bypass of the add-on control device during the semiannual reporting period, and the total duration as a percent of the total source operating time during that semiannual reporting period.

(x) A breakdown of the total duration of the deviations from the operating limits in Table 1 of this subpart and bypasses of the add-on control device during the semiannual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(xi) A summary of the total duration of CPMS downtime during the semiannual reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that semiannual reporting period.

(xii) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control device since the last semiannual reporting period.

(xiii) For each deviation from the work practice standards, a description of the deviation, the date and time period of the deviation, and the actions you took to correct the deviation.



**SECTION D. Source Level Requirements**

(xiv) A statement of the cause of each deviation.

(b) Performance test reports. If you use the emission rate with add-on controls option, you must submit reports of performance test results for emission capture systems and add-on control devices no later than 60 days after completing the tests as specified in §63.10(d)(2).

# 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3920]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What reports must I submit?

(c) Startup, shutdown, malfunction reports. If you used the emission rate with add-on controls option and you had a startup, shutdown, or malfunction during the semiannual reporting period, you must submit the reports specified in paragraphs (c)(1) and (2) of this section.

(1) If your actions were consistent with your startup, shutdown, and malfunction plan, you must include the information specified in §63.10(d) in the semiannual compliance report required by paragraph (a) of this section.

(2) If your actions were not consistent with your startup, shutdown, and malfunction plan, you must submit an immediate startup, shutdown, and malfunction report as described in paragraphs (c)(2)(i) and (ii) of this section.

(i) You must describe the actions taken during the event in a report delivered by facsimile, telephone, or other means to the Administrator within 2 working days after starting actions that are inconsistent with the plan.

(ii) You must submit a letter to the Administrator within 7 working days after the end of the event, unless you have made alternative arrangements with the Administrator as specified in §63.10(d)(5)(ii). The letter must contain the information specified in §63.10(d)(5)(ii).

**VI. WORK PRACTICE REQUIREMENTS.**

# 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across the primary carbon canister and the dry filters can be measured.

# 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The lead (primary) canister shall be removed from the system or filled with fresh carbon within ten (10) days of the perchloroethylene breakthrough occurring in the lead (primary) canister. At the time of removal or refilling of the lead (primary) canister, the exhaust flow shall be switched so that the lag (secondary) canister is now the lead (primary), and the new or refilled canister will become the lag (secondary) canister.

If there is a breakthrough in the lag (secondary) carbon canister, the coating lines shall be shutdown or switched over to only those coatings containing no perchloroethylene until the canisters can be changed out or refilled.

## SECTION D. Source Level Requirements

# 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall report each deviation to their maintenance department. Within seven days, the deviations shall be investigated. The results of this investigations shall be recorded and included within the semiannual report.

# 020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3892]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What operating limits must I meet?

The permittee must meet the operating limits specified below. These operating limits apply to the emission capture and control systems on the coating operation, for which the permittee uses this option, and the permittee must establish the operating limits during the performance test according to the requirements in 40 CFR Section 63.3967. The Permittee must meet the operating limits at all times after establishing them.

a. The direction of the air flow at all times must be into the enclosure.

b. The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute, or the pressure drop across the enclosure must be at least 0.007 inch H<sub>2</sub>O as established in Method 204 of Appendix M to 40 CFR Part 51.

If the permittee wishes to use an add on control device other than those listed in table 1 of 40 CFR Part 63, Subpart Mmmm, or to monitor an alternative parameter and/or comply with a different operating limit, the permittee must apply to the Administrator for approval.

# 021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3893]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What work practice standards must I meet?

If the permittee uses an add-on control device, the permittee must develop and implement a work practice plan to minimize organic HAP emissions from the storage, mixing, and conveying of coatings, thinners and/or other additives, and cleaning materials used in, and waste materials generated by the controlled coating operation for which the permittee uses this option. The plan must specify practices and procedures to ensure that, at a minimum, the elements specified below are implemented. As an alternative, the permittee may request an alternative set of work practices. Any alternatives shall be approved by the US EPA.

a. All organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be stored in closed containers.

b. Spills of organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized.

c. Organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.

d. Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.

## SECTION D. Source Level Requirements

e. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.

# 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3900]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations in this subpart as specified in paragraphs (a)(1) and (2) of this section.

(1) Any coating operation(s) for which you use the compliant material option or the emission rate without add-on controls option, as specified in §63.3891(a) and (b), must be in compliance with the applicable emission limit in §63.3890 at all times.

(2) Any coating operation(s) for which you use the emission rate with add-on controls option, as specified in §63.3891(c), must be in compliance with the emission limitations as specified in paragraphs (a)(2)(i) through (iii) of this section.

(i) The coating operation(s) must be in compliance with the applicable emission limit in §63.3890 at all times except during periods of startup, shutdown, and malfunction.

(ii) The coating operation(s) must be in compliance with the operating limits for emission capture systems and add-on control devices required by §63.3892 at all times except during periods of startup, shutdown, and malfunction, and except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.3961(j).

(iii) The coating operation(s) must be in compliance with the work practice standards in §63.3893 at all times.

(b) You must always operate and maintain your affected source, including all air pollution control and monitoring equipment you use for purposes of complying with this subpart, according to the provisions in §63.6(e)(1)(i).

(c) If your affected source uses an emission capture system and add-on control device, you must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3). The plan must address the startup, shutdown, and corrective actions in the event of a malfunction of the emission capture system or the add-on control device. The plan must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures.

# 023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3942]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

How do I demonstrate continuous compliance with the emission limitations?

For each compliance period to demonstrate continuous compliance, the permittee must use no coating, thinner, additive and cleaning material that does not meet the organic HAP content limit, unless the HAP emissions are captured and controlled as required by 40 CFR Part 63, Subpart Mmmm.

# 024 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3960]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

By what date must I conduct performance tests and other initial compliance demonstrations?

## SECTION D. Source Level Requirements

The permittee shall follow the work practice plan required by 40 CFR Section 63.3892 when using any non-complying coating. The work practice plan shall be maintained.

# 025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3960]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

By what date must I conduct performance tests and other initial compliance demonstrations?

The permittee shall maintain the emission capture systems, add-on control devices, and CPMS while using any non-complying coatings, additives, thinners or cleaning agents.

# 026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3961]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

How do I demonstrate initial compliance?

The permittee may use the emission rate with add-on controls option for any coating operation, for any group of coating operations in the affected source, or for all of the coating operations in the affected source. The permittee may include both controlled and uncontrolled coating operations in a group for which the permittee uses this option. The permittee must use either the compliant material option or the emission rate without add-on controls option for any coating operation in the affected source for which the permittee does not use the emission rate with add-on controls option. To demonstrate initial compliance, the coating operation for which the permittee uses the emission rate with add-on controls option must meet the applicable emission limitations in 40 CFR Sections 63.3890, 63.3892 and 63.3893. The permittee must demonstrate that all coating operations included in the predominant activity determination or calculations of the facility-specific emission limit comply with that limit. The permittee must meet all the requirements of this section. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which the permittee uses the compliant material option or the emission rate without add-on controls option. The permittee does not need to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed onsite (or reclaimed off-site if the permittee has documentation showing that the permittee received back the exact same materials that were sent off-site) and reused in the coatings operation for which the permittee uses the emission rate with add-on controls option. If the permittee uses coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.

Except as provided in 40 CFR Section 63.3960(a)(4), the permittee must establish and demonstrate continuous compliance during the initial compliance period with the operating limits required by 40 CFR Section 63.3892, using the procedures specified in 40 CFR Sections 63.3967 and 63.3968.

The permittee must develop, implement, and document the implementation of the work practice plan required by 40 CFR Section 63.3893 during the initial compliance period, as specified in 40 CFR Section 63.3930.

The permittee must follow the procedures in paragraphs (a) through (g) of this section to demonstrate compliance with the applicable emission limit in 40 CFR Section 63.3890 for the source in each subcategory.

a. Determine the mass fraction of organic HAP, density, volume used, and volume fraction of coating solids. Follow the procedures specified in 40 CFR Section 63.3951(a) - (d) to determine the mass fraction of organic HAP, density, and volume of each coating, thinner and/or other additive, and cleaning material used during each month; and the volume fraction of coating solids for each coating used during each month.

## SECTION D. Source Level Requirements

- b. Calculate the total mass of organic HAP emissions before add-on controls. Using Equation 1 of 40 CFR Section 63.3951, calculate the total mass of organic HAP emissions before add-on controls from all coatings, thinners and/or other additives, and cleaning materials used during each month in the coating operation or group of coating operations for which the permittee uses the emission rate with add-on controls option.
- c. Calculate the organic HAP emission reduction for each controlled coating operation. Determine the mass of organic HAP emissions reduced for each controlled coating operation during each month. The emission reduction determination quantifies the total organic HAP emissions that pass through the emission capture system and are destroyed or removed by the add-on control device. Use the procedures in paragraph (d) of this section to calculate the mass of organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which the permittee conducts liquid-liquid material balances.
- d. Calculate the organic HAP emission reduction for each controlled coating operation not using liquid-liquid material balance. Use Equation 1 of this section to calculate the organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which you conduct liquid-liquid material balances. The calculation applies the emission capture system efficiency and add-on control device efficiency to the mass of organic HAP contained in the coatings, thinners and/or other additives, and cleaning materials that are used in the coating operation served by the emission capture system and add-on control device during each month. The permittee must assume zero efficiency for the emission capture system and add-on control device for any period of time a deviation specified in 40 CFR Section 63.3963(c) occurs in the controlled coating operation, including a deviation during a period of startup, shutdown, or malfunction, unless the permittee has other data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Administrator. Equation 1 of this section treats the materials used during such a deviation as if they were used on an uncontrolled coating operation for the time period of the deviation.

$$H_c + (A_c + B_c + C_c - R_w - H_{unc}) (CE / 100 \times DRE / 100) \quad (\text{Equation 1})$$

Where:

$H_c$  = Mass of organic HAP emission reduction for the controlled coating operation during the month, pounds.

$A_c$  = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, pounds, as calculated in Equation 1A of this section.

$B_c$  = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, pounds, as calculated in Equation 1B of this section.

$C_c$  = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, pounds, as calculated in Equation 1C of this section.

$R_w$  = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the compliance period, pounds, determined according to 40 CFR Section 63.3951(e)(4). (The permittee may assign a value of zero to  $R_w$  if the permittee does not wish to use this allowance.)

$H_{unc}$  = Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in 40 CFR Section 63.3963(c) and (d) that occurred during the month in the controlled coating operation, pounds, as calculated in Equation 1D of this section.

$CE$  = Capture efficiency of the emission capture system vented to the add-on control device, percent. Use the test methods and procedures specified in 40 CFR Sections 63.3964 and 63.3965 to measure and record capture efficiency.

$DRE$  = Organic HAP destruction or removal efficiency of the add-on control device, percent. Use the test methods and procedures in 40 CFR Sections 63.3964 and 63.3966 to measure and record the organic HAP destruction or removal efficiency.

1. Calculate the mass of organic HAP in the coatings used in the controlled coating operation, pounds, using Equation 1A of this section:

$$A_s = [\text{Sum } (i = 1 \text{ thru } m)] (\text{Vol } c,i) \times (D c,i) \times (W c,i) \quad (\text{Equation 1A})$$

## SECTION D. Source Level Requirements

Where:

$A_s$  = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, pounds.

$Vol_{c,i}$  = Total volume of coating,  $i$ , used during the month, gallons.

$D_{c,i}$  = Density of coating,  $i$ , pounds per gallon.

$W_{c,i}$  = Mass fraction of organic HAP in coating,  $i$ , pounds per pound. For reactive adhesives as defined in 40 CFR Section 63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in Appendix A to Subpart PPPP of 40 CFR Part 63.

$m$  = Number of different coatings used.

(2) Calculate the mass of organic HAP in the thinners and/or other additives used in the controlled coating operation, kg (lb), using Equation 1B of this section:

$$B_c = [\text{Sum } (j = 1 \text{ thru } n)] (Vol_{t,j}) \times (D_{t,j}) \times (W_{t,j}) \quad \text{Equation 1B}$$

Where:

$B_c$  = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, pounds.

$Vol_{t,j}$  = Total volume of thinner and/or other additive,  $j$ , used during the month, gallons.

$D_{t,j}$  = Density of thinner and/or other additive,  $j$ , pounds per gallon.

$W_{t,j}$  = Mass fraction of organic HAP in thinner and/or other additive,  $j$ , pounds per pound. For reactive adhesives as defined in 40 CFR Section 63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in Appendix A to Subpart PPPP of 40 CFR Part 63.

$n$  = Number of different thinners and/or other additives used.

3. Calculate the mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, pounds, using Equation 1C of this section:

$$C_c = [\text{Sum } (k = 1 \text{ thru } p)] (Vol_{s,k}) \times (D_{s,k}) \times (W_{s,k}) \quad \text{(Equation 1C)}$$

Where:

$C_c$  = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, pounds.

$Vol_{s,k}$  = Total volume of cleaning material,  $k$ , used during the month, gallons.

$D_{s,k}$  = Density of cleaning material,  $k$ , pounds per gallon.

$W_{s,k}$  = Mass fraction of organic HAP in cleaning material,  $k$ , pounds per pound.

$p$  = Number of different cleaning materials used.

4. Calculate the mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used in the controlled coating operation during deviations specified in 40 CFR Sections 63.3963 (c) and (d), using Equation 1D of this section:

$$H_{unc} = [\text{Sum } (h = 1 \text{ thru } q)] (Vol_h) \times (D_h) \times (W_h) \quad \text{(Equation 1D)}$$

Where:

$H_{unc}$  = Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in 40 CFR Sections 63.3963(c) and (d) that occurred during the month in the controlled coating operation, pounds.

$Vol_h$  = Total volume of coating, thinner and/or other additive, or cleaning material,  $h$ , used in the controlled coating operation during deviations, gallons.

## SECTION D. Source Level Requirements

D h = Density of coating, thinner and/or other additives, or cleaning material, h, pounds per gallon.

W h = Mass fraction of organic HAP in coating, thinner and/or other additives, or cleaning material, h, pounds organic HAP per pound coating. For reactive adhesives as defined in 40 CFR Section 63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in Appendix A to Subpart PPPP of 40 CFR Part 63.

q = Number of different coatings, thinners and/or other additives, and cleaning materials used.

e. The permittee shall determine the total volume of coating solids used, gallons, which is the combined volume of coating solids for all the coatings used during each month in the coating operation or group of coating operations for which the permittee uses the emission rate with add-on controls option, using Equation 2 of 40 CFR Section 63.3951.

f. The permittee shall determine the mass of organic HAP emissions, pounds, during each month, using Equation 4 of this section:

$$H \text{ (HAP)} = H e - [\text{Sum } (i = 1 \text{ thru } q)] (H c,i) - [\text{Sum } (j=1 \text{ thru } r)] (H \text{ CSR}i) \text{ (Equation 4)}$$

where:

H (HAP) = Total mass of organic HAP emissions for the month, pounds.

H e = Total mass of organic HAP emissions before add-on controls from all the coatings, thinners and/or other additives, and cleaning materials used during the month, pounds, determined according to paragraph (b) of this section.

H c,i = Total mass of organic HAP emission reduction for controlled coating operation, i, not using a liquid-liquid material balance, during the month, pounds, from Equation 1 of this condition.

H CSRi = Total mass of organic HAP emissions reduction for coating operation, j, controlled by solvent recovery using a liquid-to-liquid material balance, during the month, pounds, from Equation 3 of this section.

q = Number of controlled coating operations not controlled by a solvent recovery system using a liquid-liquid material balance.

r = Number of coating operations controlled by a solvent recovery system using a liquid-to-liquid material balance.

g. The permittee shall determine the organic HAP emission rate for the compliance period, pounds of organic HAP emitted per gallon coating solids used, using Equation 5 of this section:

$$H \text{ annual} = \{[\text{Sum } (y = 1 \text{ thru } n)] H \text{ (HAP),}y\} / \{[\text{Sum } (y = 1 \text{ thru } n)] V \text{ st},y\} \text{ (Equation 5)}$$

Where:

H annual = Organic HAP emission rate for the compliance period, pounds organic HAP emitted per gallon coating solids used.

H (HAP),y = Organic HAP emissions for month, y, pounds, determined according to Equation 4 of this condition.

V st,y = Total volume of coating solids used during month, y, gallons, from Equation 2 of 40 CFR Section 63.3951.

y = Identifier for months.

n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

h. The organic HAP emission rate for the initial compliance period, calculated using Equation 5 of this section, must be less than or equal to the applicable emission limit in 40 CFR Section 63.3890. The permittee must keep all records as required by 40 CFR Sections 63.3930 and 63.3931. As part of the notification of compliance status required by 40 CFR Section 63.3910, the permittee must identify the coating operation for which the permittee used the emission rate with add-on controls option and submit a statement that the coating operation was in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in 40 CFR Section 63.3890, and the permittee has achieved the operating limits required by 40 CFR Section 63.3892 and the work practice standards required by 40 CFR Section 63.3893.

## SECTION D. Source Level Requirements

# 027 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3967]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

How do I establish the emission capture system and add-on control device operating limits during the performance test?

During any performance test required, the permittee must establish the operating limits required according to this section, unless you have received approval for alternative monitoring and operating limits under 40 CFR Section 63.8(f).

For each capture device that is not part of a PTE that meets the criteria of 40 CFR Section 39.3965, establish an operating limit for either the gas volumetric flow rate or duct static pressure, as specified in paragraphs (a) and (b) of this condition. The operating limit for a PTE is specified in Table 1 of 40 CFR Part 63, Subpart Mmmm.

- a. During any capture efficiency determination required, the permittee must monitor and record either the gas volumetric flow rate or the duct static pressure for each separate capture device in the emission capture system at least once every 15 minutes during each of the three test runs at a point in the duct between the capture device and the add-on control device inlet.
- b. Calculate and record the average gas volumetric flow rate or duct static pressure for the three test runs for each capture device. This average gas volumetric flow rate or duct static pressure is the minimum operating limit for that specific capture device.

# 028 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3968]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What are the requirements for continuous parameter monitoring system installation, operation, and maintenance?

The permittee shall install, operate, and maintain the CPMS required by 40 CFR Section 63.3968 according to the following.

- a. The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. It must have a minimum of four equally spaced successive cycles of CPMS operation in 1 hour.
- b. The permittee must determine the average of all recorded readings for each successive 3-hour period of the emission capture system and add-on control device operation.
- c. The permittee must record the results of each inspection, calibration, and validation check of the CPMS.
- d. The permittee must maintain the CPMS at all times and have available necessary parts for routine repairs of the monitoring equipment.
- e. The permittee must operate the CPMS and collect emission capture system and add-on control device parameter data at all times that a controlled coating operation is operating, except during monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, if applicable, calibration checks and required zero and span adjustments).
- f. The permittee must not use emission capture system or add-on control device parameter data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities when calculating data averages. The permittee must use all the data collected during all other periods in calculating the data averages for determining compliance with the emission capture system and add-on control device operating limits.



## SECTION D. Source Level Requirements

g. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the CPMS to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations is a deviation from the monitoring requirements.

# 029 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3968]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What are the requirements for continuous parameter monitoring system installation, operation, and maintenance?

The permittee must meet the requirements below for each emission capture system that contains bypass lines that could divert emissions away from the add-on control device to the atmosphere.

a. The permittee must monitor or secure the valve or closure mechanism controlling the bypass line in a nondiverting position in such a way that the valve or closure mechanism cannot be opened without creating a record that the valve was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the requirements specified below.

1. Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. The time of occurrence and flow control position must be recorded, as well as every time the flow direction is changed. The flow control position indicator must be installed at the entrance to any bypass line that could divert the emissions away from the add-on control device to the atmosphere.

2. Secure any bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. The permittee must visually inspect the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position, and the emissions are not diverted away from the add-on control device to the atmosphere.

3. Ensure that any bypass line valve is in the closed (nondiverting) position through monitoring of valve position at least once every 15 minutes. The permittee must inspect the monitoring system at least once every month to verify that the monitor will indicate valve position.

4. Use an automatic shutdown system in which the coating operation is stopped when flow is diverted by the bypass line away from the add-on control device to the atmosphere when the coating operation is running. The permittee must inspect the automatic shutdown system at least once every month to verify that it will detect diversions of flow and shut down the coating operation.

5. Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow direction indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. Each time the flow direction changes, the next reading of the time of occurrence and flow direction must be recorded. The flow direction indicator must be installed in each bypass line or air makeup supply line that could divert the emissions away from the add-on control device to the atmosphere.

b. If any bypass line is opened, the permittee must include a description of why the bypass line was opened and the length of time it remained open in the semiannual compliance reports.

# 030 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3968]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What are the requirements for continuous parameter monitoring system installation, operation, and maintenance?

**SECTION D. Source Level Requirements**

The capture system monitoring system must comply with the applicable requirements in 40 CFR Sections 63.3968(a) and (g) and:

a. For each flow measurement device, the permittee must meet the requirements below.

1. Locate a flow sensor in a position that provides a representative flow measurement in the duct from each capture device in the emission capture system to the add-on control device.
2. Use a flow sensor with an accuracy of at least 10 percent of the flow.
3. Perform an initial sensor calibration in accordance with the manufacturer's requirements.
4. Perform a validation check before initial use or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values with electronic signal simulations or via relative accuracy testing.
5. Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor values with electronic signal simulations or via relative accuracy testing.
6. Perform leak checks monthly.
7. Perform visual inspections of the sensor system quarterly if there is no redundant sensor.

b. For each pressure drop measurement device, the permittee must comply with the requirements below.

1. Locate the pressure sensor(s) in or as close to a position that provides a representative measurement of the pressure drop across each opening to be monitored.
2. Use a pressure sensor with an accuracy of at least 0.5 inches of water column or 5 percent of the measured value, whichever is larger.
3. Perform an initial calibration of the sensor according to the manufacturer's requirements.
4. Conduct a validation check before initial operation or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.
5. Conduct accuracy audits every quarter and after every deviation. Accuracy audits include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.
6. Perform monthly leak checks on pressure connections. A pressure of at least 1.0 inches of water column to the connection must yield a stable sensor result for at least 15 seconds.
7. Perform a visual inspection of the sensor at least monthly if there is no redundant sensor.

**VII. ADDITIONAL REQUIREMENTS.**

# 031 [25 Pa. Code §127.441]

Operating permit terms and conditions.

It shall be deemed a deviation when the amperage falls more than 10 percent below 15 amps of current draw, and the

## SECTION D. Source Level Requirements

corresponding pressure differential measurement is below 0.1 inches of water. Each deviation shall be reported in the semiannual report.

# 032 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Breakthrough has occurred under the following conditions:

- Between the lead and lag canisters - the presence of perchloroethylene in two consecutive samples taken within 24 hours.
- After the lag canister - the presence of perchloroethylene in any samples.

The presence of perchloroethylene in any samples taken after the lag carbon canister will constitute noncompliance until the canister is replaced or refilled.

# 033 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

In the event that Subpart Mmmm is revised by EPA, East Penn shall comply with the revised version of Subpart Mmmm, and shall not be required to comply with any provisions in this permit designated as having Subpart Mmmm as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised Subpart Mmmm.

# 034 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3881]

[Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products](#)

[Am I subject to this subpart?](#)

The source is subject to Subpart Mmmm of the National Emission Standards for Hazardous Air Pollutants for Source Categories and shall comply with all applicable requirements of this Subpart. 40 CFR Section 63.13 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

# 035 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3891]

[Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products](#)

[What are my options for meeting the emission limits?](#)

You must include all coatings (as defined in §63.3981), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in §63.3890. To make this determination, you must use at least one of the three compliance options listed in paragraphs (a) through (c) of this section. You may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group, or to the entire affected source. You may use different compliance options for different coating operations, or at different times on the same coating operation. You may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts.

## SECTION D. Source Level Requirements

However, you may not use different compliance options at the same time on the same coating operation. If you switch between compliance options for any coating operation or group of coating operations, you must document this switch as required by §63.3930(c), and you must report it in the next semiannual compliance report required in §63.3920.

# 036 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3891]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What are my options for meeting the emission limits?

(a) Compliant material option. Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in §63.3890, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. You must meet all the requirements of §§63.3940, 63.3941, and 63.3942 to demonstrate compliance with the applicable emission limit using this option.

(b) Emission rate without add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.3890, calculated as a rolling 12-month emission rate and determined on a monthly basis. You must meet all the requirements of §§63.3950, 63.3951, and 63.3952 to demonstrate compliance with the emission limit using this option.

(c) Emission rate with add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), and the emissions reductions achieved by emission capture systems and add-on controls, the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.3890, calculated as a rolling 12-month emission rate and determined on a monthly basis. If you use this compliance option, you must also demonstrate that all emission capture systems and add-on control devices for the coating operation(s) meet the operating limits required in §63.3892, except for solvent recovery systems for which you conduct liquid-liquid material balances according to §63.3961(j), and that you meet the work practice standards required in §63.3893. You must meet all the requirements of §§63.3960 through 63.3968 to demonstrate compliance with the emission limits, operating limits, and work practice standards using this option.

# 037 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3901]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

What parts of the General Provisions apply to me?

The permittee shall comply with the provisions of 40 CFR Part 63, Subpart A as they pertain to this source and are listed in Table 2 of 40 CFR Part 63, Subpart Mmmm.

# 038 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3951]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

How do I demonstrate initial compliance with the emission limitations?

The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of this section.

$$H_e = A + B + C - R_w \quad (\text{Equation 1})$$

Where:

## SECTION D. Source Level Requirements

$H_e$  = Total mass of organic HAP emissions during the month, kg(lbs).

$A$  = Total mass of organic HAP in the coatings used during the month, kg(lbs), as calculated in Equation 1A of this section.

$B$  = Total mass of organic HAP in the thinners and/or other additives used during the month, kg(lbs), as calculated in Equation 1B of this section.

$C$  = Total mass of organic HAP in the cleaning materials used during the month, kg(lbs), as calculated in Equation 1C of this section.

$R_w$  = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the month, kg(lbs), determined according to 40 CFR Part 63, Subpart Mmmm. (The permittee may assign a value of zero to  $R_w$  if the permittee does not wish to use this allowance.)

a. Calculate the kg(lbs) organic HAP in the coatings used during the month using Equation 1A of this section:

$$A = [\text{Sum } (i = 1 \text{ thru } m)] (\text{Vol } C,i) \times (D_{C,i}) \times (W_{C,i}) \quad (\text{Equation 1A})$$

Where:

$A$  = Total mass of organic HAP in the coatings used during the month, kg(lbs).

$\text{Vol } C,i$  = Total volume of coating,  $i$ , used during the month, liters(gallons).

$D_{C,i}$  = Density of coating,  $i$ , kg(lbs) coating per liter(gallon) coating.

$W_{C,i}$  = Mass fraction of organic HAP in coating,  $i$ , kg(lbs) organic HAP per kg(lb) coating. For reactive adhesives as defined in 40 CFR Section 63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to 40 CFR Part 63, Subpart Pppp of this part.

$m$  = Number of different coatings used during the month.

b. Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section:

$$B = [\text{Sum } (j = 1 \text{ thru } n)] (\text{Vol } t,j) \times (D_{t,j}) \times (W_{t,j}) \quad (\text{Equation 1B})$$

Where:

$B$  = Total mass of organic HAP in the thinners and/or other additives used during the month, kg(lbs).

$\text{Vol } t,j$  = Total volume of thinner and/or other additive,  $j$ , used during the month, liters(gallons).

$D_{t,j}$  = Density of thinner and/or other additive,  $j$ , kg(lbs) per liter(gallons).

$W_{t,j}$  = Mass fraction of organic HAP in thinner and/or other additive,  $j$ , kg(lbs) organic HAP per kg(gallon) thinner and/or other additive. For reactive adhesives as defined in 40 CFR Section 63.3981, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to 40 CFR Part 63, Subpart Pppp of this part.

$n$  = Number of different thinners and/or other additives used during the month.

## SECTION D. Source Level Requirements

c. Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1C of this section:

$$C = [\text{sum } (k = 1 \text{ thru } p)] (\text{Vol } s,k) \times (D s,k) \times (W s,k) \quad (\text{Equation 1C})$$

Where:

C = Total mass of organic HAP in the cleaning materials used during the month, kg(lbs).

Vol s,k = Total volume of cleaning material, k, used during the month, liters(gallons).

D s,k = Density of cleaning material, k, kg(lbs) per liter(gallon).

W s,k = Mass fraction of organic HAP in cleaning material, k, kg(lbs) organic HAP per kg(lbs) material.

p = Number of different cleaning materials used during the month.

d. Determine the total volume of coating solids used, liters (gallons), which is the combined volume of coating solids for all the coatings used during each month, using Equation 2 of this section:

$$V st = [\text{Sum } (i = 1 \text{ thru } m)] (\text{Vol } c,i) \times (V s,i) \quad (\text{Equation 2})$$

Where:

V st = Total volume of coating solids used during the month, liters(gallons).

Vol c,i = Total volume of coating, i, used during the month, liters(gallons).

V s,i = Volume fraction of coating solids for coating, i, liter(gallons) solids per liter(gallon) coating, determined according to 40 CFR Section 63.3941(b).

m = Number of coatings used during the month.

e. Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per liter (gallon) coating solids used, using Equation 3 of this section:

$$H yr = \{[\text{Sum } (y = 1 \text{ thru } n)] H e\} / \{[\text{Sum } (y = 1 \text{ thru } n)] V st\} \quad (\text{Equation 3})$$

Where:

H yr = Average organic HAP emission rate for the compliance period, kg(lbs) organic HAP emitted per liter(gallon) coating solids used.

H e = Total mass of organic HAP emissions from all materials used during month, y, kg(lbs), as calculated by Equation 1 of this section.

V st = Total volume of coating solids used during month, y, liters(gallons), as calculated by Equation 2 of this section.

y = Identifier for months.

n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

## SECTION D. Source Level Requirements

f. The organic HAP emission rate for the initial compliance period calculated using Equation 3 of this section must be less than or equal to the applicable emission limit for each subcategory in 40 CFR Section 63.3890 or the predominant activity or facility-specific emission limit. The permittee must keep all records as required by 40 CFR Sections 63.3930 and 63.3931. As part of the notification of compliance status required, the permittee must identify the coating operation(s) for which the permittee used the emission rate without add-on controls option and submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit, determined according to the procedures in this section.

# 039 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3963]

Subpart Mmmm - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

How do I demonstrate continuous compliance with the emission limitations?

To demonstrate continuous compliance with the applicable emission limit in 40 CFR Section 63.3890, the organic HAP emission rate for each compliance period, determined according to the procedures in 40 CFR Section 63.3961, must be equal to or less than the applicable emission limit in 40 CFR Section 63.3890. A compliance period consists of 12 months. Each month after the end of the initial compliance period is the end of a compliance period consisting of that month and the preceding 11 months. The permittee must perform the calculations in 40 CFR Section 63.3961 on a monthly basis using data from the previous 12 months of operation. If the permittee is complying with a facility-specific emission limit, the permittee must also perform the calculation using Equation 1 in 40 CFR Section 63.3890 on a monthly basis using the data from the previous 12 months of operation.

If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in 40 CFR Section 63.3890, this is a deviation from the emission limitation for that compliance period that must be reported as specified in 40 Sections 63.3910(c)(6) and 63.3920(a)(7).

The permittee must demonstrate continuous compliance with each operating limit required by 40 CFR Section 63.3892 that applies to you, as specified in Table 1 to this subpart, when the coating line is in operation.

a. If an operating parameter is out of the allowed range specified in Table 1 to 40 CFR Part 63, Subpart Mmmm, this is a deviation from the operating limit that must be reported as specified in 40 CFR Sections 63.3910(c)(6) and 63.3920(a)(7).

b. If an operating parameter deviates from the operating limit specified in Table 1 to 40 CFR Part 63, Subpart Mmmm, then the permittee must assume that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation, unless the permittee has other data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Administrator.

The permittee must meet the requirements for bypass lines in 40 CFR Section 63.3968(b) for controlled coating operations for which the permittee does not conduct liquid-liquid material balances. If any bypass line is opened and emissions are diverted to the atmosphere when the coating operation is running, this is a deviation that must be reported as specified in 40 CFR Sections 63.3910(c)(6) and 63.3920(a)(7). For the purposes of completing the compliance calculations specified in 40 CFR Section 63.3961(h), the permittee must treat the materials used during a deviation on a controlled coating operation as if they were used on an uncontrolled coating operation for the time period of the deviation as indicated in Equation 1 of 40 CFR Section 63.3961.

The permittee must demonstrate continuous compliance with the work practice standards in 40 CFR Section 63.3983. If the permittee did not develop a work practice plan, or the permittee did not implement the plan, or the permittee did not keep the records required by 40 CFR Section 63.3930(k)(8), this is a deviation from the work practice standards that must be reported as specified in 40 CFR Sections 63.3910(c)(6) and 63.3920(a)(7).

## SECTION D. Source Level Requirements

As part of each semiannual compliance report required in 40 CFR Section 63.3920, the permittee must identify the coating operation for which the permittee used the emission rate with add-on controls option. If there were no deviations from the emission limitations, submit a statement that the permittee was in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in 40 CFR Section 63.3890, and the permittee achieved the operating limits required by 40 CFR Section 63.3892 and the work practice standards required by 40 CFR Section 63.3893 during each compliance period.

During periods of startup, shutdown, or malfunction of the emission capture system, add-on control device, or coating operation that may affect emission capture or control device efficiency, you must operate in accordance with the startup, shutdown, and malfunction plan.

The permittee must maintain records as specified in 40 CFR Sections 63.3930 and 63.3931.

# 040 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6]

### Subpart A--General Provisions

#### Compliance with standards and maintenance requirements.

The permittee shall have developed and implemented a written "Start-up, Shutdown and Malfunction Plan" (SSM), that describes in detail, the procedures for operation and maintaining the source during start-up, shutdown or malfunctions and a program of corrective actions for the malfunctioning source and control device. The SSM plan is incorporated into this Title V permit. The correct SSM plan and any previous plans (less than 5 years) shall be maintained at the facility.

If the plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the plan at the time the permittee developed the plan, the permittee shall revise the plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunctions of the source or control device.

# 041 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6]

### Subpart A--General Provisions

#### Compliance with standards and maintenance requirements.

At all times, including periods of start-up, shutdown and malfunction, the permittee shall operate and maintain the source and associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards.

The source and associated air pollution control equipment shall be operated in accordance with the SSM plan during periods of Start-up, shutdown and malfunctions. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the SSM plan.

\*\*\* Permit Shield in Effect. \*\*\*



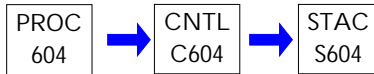
## SECTION D. Source Level Requirements

Source ID: 604

Source Name: IND BATTERY TOUCH-UP OPERATION

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 10 RACT



### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.13]

##### Processes

The permittee shall not permit the emission to the atmosphere of particulate matter from either source in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3942]

##### Subpart M MMMM - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

##### How do I demonstrate continuous compliance with the emission limitations?

As an alternative to complying with the emission rate without add-on controls option in 40 CFR 63.3952, the permittee may comply with compliant materials option in 40 CFR 63.3942, as follows:

(a) For each compliance period to demonstrate continuous compliance, you must use no coating for which the organic HAP content (determined using Equation 2 of §63.3941) exceeds the applicable emission limit in §63.3890, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to §63.3941(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in §63.3940, is the end of a compliance period consisting of that month and the preceding 11 months. If you are complying with a facility-specific emission limit under §63.3890(c), you must also perform the calculation using Equation 1 in §63.3890(c)(2) on a monthly basis using the data from the previous 12 months of operation.

(b) If you choose to comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in paragraph (a) of this section is a deviation from the emission limitations that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(5).

(c) As part of each semiannual compliance report required by §63.3920, you must identify the coating operation(s) for which you used the compliant material option. If there were no deviations from the applicable emission limit in §63.3890, submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because you used no coatings for which the organic HAP content exceeded the applicable emission limit in §63.3890, and you used no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to §63.3941(a).

(d) You must maintain records as specified in §§63.3930 and 63.3931.

# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3952]

##### Subpart M MMMM - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

##### How do I demonstrate continuous compliance with the emission limitations?

(a) To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to §63.3951(a) through (g), must be less than or equal to the applicable emission limit in §63.3890. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.3950 is the end of a compliance period consisting of that month and the preceding 11 months. You must perform the calculations in §63.3951(a) through (g) on a monthly basis using data from the previous 12 months of operation. If you are complying with a facility-

**SECTION D. Source Level Requirements**

specific emission limit under §63.3890(c), you must also perform the calculation using Equation 1 in §63.3890(c)(2) on a monthly basis using the data from the previous 12 months of operation.

(b) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in §63.3890, this is a deviation from the emission limitation for that compliance period and must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(6).

(c) As part of each semiannual compliance report required by §63.3920, you must identify the coating operation(s) for which you used the emission rate without add-on controls option. If there were no deviations from the emission limitations, you must submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.3890, determined according to §63.3951(a) through (g).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall record the following information for waste coatings, solvents or mixtures sent off-site for recycling or disposal:

- Pounds and gallons per month of waste coating, solvents or mixtures shipped from the facility,
- Waste profile or sampling data for each shipment, and
- Identification of the waste disposal company for each shipment.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall comply with the following conditions for Source 603 in this permit, as those conditions are applicable to

**SECTION D. Source Level Requirements**

Source 604:

Condition 001: 40 CFR 63.3890  
Condition 009: 40 CFR 63.3930  
Condition 010: 40 CFR 63.3931  
Condition 015: 40 CFR 63.3920  
Condition 022: 40 CFR 63.3900  
Condition 033: 40 CFR 63.3881  
Condition 034: 40 CFR 63.3891  
Condition 035: 40 CFR 63.3891  
Condition 036: 40 CFR 63.3901

# 006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

In the event that Subpart M MMM is revised by EPA, East Penn shall comply with the revised version of Subpart M MMM, and shall not be required to comply with any provisions in this permit designated as having Subpart M MMM as their authority, to the extent that such permit provisions would be inconsistent with the revised Subpart M MMM.

\*\*\* Permit Shield in Effect. \*\*\*

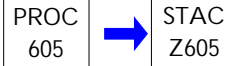
**SECTION D. Source Level Requirements**

Source ID: 605

Source Name: BATTERY FINISHING

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 10 RACT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

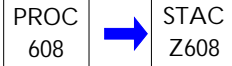
**SECTION D. Source Level Requirements**

Source ID: 608

Source Name: GASOLINE AND DIESEL HANDLING

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG 10 RACT

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION E. Source Group Restrictions.

Group Name: SG 01 A-1 BATTERY ASSEMBLY

Group Description: A-1 Battery Assembly Plant

Sources included in this group:

ID	Name
111	A-1 MIXING (SCIEN FC 1) & PASTING (FARR CC 4)
112	A-1 DRY CHARGE AREA (WHEEL FC 2, SCIEN FC 6 & FARR CC 4)
113	A-1 GRIDCAST (SCIEN FC 6 & SCIEN FC 5)
114	A-1 BATTERY ASSM (FARR CC 4 & SCIEN FC 6)
116A	A-1 LEAD OXIDE STORAGE SILOS (2) (BIN VENTS)
118	A-1 FORMATION RM (3 MIST ELIMS)
192	A-1 BURN & STACK (SCIENTIFIC FC 5)
504	A-1 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)
511	A-1 HEAT SEAL BOOTHS #1-4

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.21]

##### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in this group in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Note: This condition is not relevant to Sources 118 and 511, so long as these sources do not emit SO<sub>2</sub>.

# 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for parts of this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall limit the lead emissions to the outdoor atmosphere from these sources to the following as measured at the associated control devices and/or stacks:

- a. Source 111 (A-1 Mixing: Scientific FC #1 & Pasting Operation: Farr CC #4) - 0.0001 grains per dry standard cubic foot (PA 1069M, 5069I & 5069J)
- b. Source 112 (A-1 Dry Charge Area: Scientific FC #6, Farr CC #4 & Wheelabrator FC #2)
  1. Scientific FC #6 & Farr CC #4 - 0.0001 grains per dry standard cubic foot (PA 5069J)
  2. Wheelabrator FC #2 - 0.000437 grains per dry standard cubic foot
- c. Source 113 (A-1 Gridcast: Scientific FC #5 & FC #6) - 0.0001 grains per dry standard cubic foot (PA 5069J & 5069H)
- d. Source 114 (A-1 Battery Assembly: Farr CC #4 & Scientific FC #6) - 0.0001 grains per dry standard cubic foot (PA 1069M & 5069J)
- e. Source 116A (A-1 Lead Oxide Storage Silos: Bin Vents) - 0.0001 grains per dry standard cubic foot (RFD12/09)
- f. Source 192 (A-1 Burn & Stack: Scientific FC #5): 0.0001 grains per dry standard cubic foot (PA 5069J)

## SECTION E. Source Group Restrictions.

g. Source 504 (A-1 Small Parts Casting) - 0.000175 grains per dry standard cubic foot (PA 5069H)

# 003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall limit the sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) emissions to the outdoor atmosphere from the Source 118 (A-1 Battery Formation Room) to 0.001 grains per dry standard cubic foot as measured at each mist eliminator stack. (PA 5069F)

# 004 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for parts of this condition are derived from 25 Pa Code Section 123.13]

The permittee shall limit the particulate emissions to the outdoor atmosphere from these sources to the following as measured at the associated control device and/or stacks:

- a. Source 111 (A-1 Mixing: Scientific FC #1 & Pasting: Farr CC #4) - 0.001 grains per dry standard cubic foot (PA 1069M, 5069I & 5069J)
- b. Source 112 (A-1 Dry Change Area: Wheelabrator FC #2, Scientific FC #6 & Farr CC #4)
  - 1. Scientific FC #6 & Farr CC #4 - 0.001 grains per dry standard cubic foot (PA 5069J)
  - 2. Wheelabrator FC #2 - 0.002 grains per dry standard cubic foot
- c. Source 113 (A-1 Grid Cast: Scientific FC #5 & FC #6) - 0.001 grains per dry standard cubic foot (PA 5069J & 5069H)
- d. Source 114 (A-1 Battery Assembly: Farr CC #4 & Scientific FC #6) - 0.001 grains per dry standard cubic foot (PA 5069J)
- e. Source 116A (A-1 Lead Oxide Bins: Bin Vents) - 0.001 grains per dry standard cubic foot (RFD12/09)
- f. Source 192 (A-1 Burn & Stack: Scientific FC #5) - 0.001 grains per dry standard cubic foot (PA 5069J)
- g. Source 504 (A-1 Small Parts Casting) - 0.04 grains per standard cubic foot (123.13)
- k. Source 511 (A-1 Heat Seal Booths #1-4) - 0.02 grains per dry standard cubic foot (Appl)

# 005 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall operate all of the sources except the Source 118 (A-1 Formation) and Source 511 (A-1 Heat Seal) in a manner that results in no visible emissions to the outdoor atmosphere.

## SECTION E. Source Group Restrictions.

### Fuel Restriction(s).

# 006 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall operate the sources in this source group using only natural gas and/or a propane-air mixture as a fuel.

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

### III. MONITORING REQUIREMENTS.

# 007 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

[Additional authority for parts of this condition is derived from 40 CFR Part 60, Subpart KK]

The permittee shall conduct the following monitoring schedule on each particulate, lead and/or sulfuric acid mist control device in this group, except Source 116A (A-1 Lead Oxide Storage Silos):

- a. Periodically read and record the pressure drop across each control device equipped with a HEPA filter and the HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- b. Periodically read and record the visible emissions from each control device equipped with a HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- c. Periodically conduct inspections of each control device and associated equipment, as appropriate, for:
  1. Visually inspect the control device and associated equipment
  2. Check for the proper removal of collected materials
  3. Check for fugitive emissions from the control device

The frequency of these inspections shall be weekly, except as provided in Section C, Condition 012.

- d. Ensure that the mist eliminator pads are rinsed in accordance with manufacturer recommendations.
- e. Perform a semiannual inspection and maintenance of each fabric collector, HEPA filter and associated equipment. This includes the inspection and maintenance to ensure proper performance of each fabric collector and HEPA filter, including the structural and filter integrity of the collector.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

# 008 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall inspect the Source 116 (A-1 Lead Oxide Storage Silo) as follows:



**SECTION E. Source Group Restrictions.**

a. Annually, during a delivery:

\* The permittee shall read and record the visible emissions from each bin vent using Method 22.

b. Quarterly:

1. The pressure drop across the control devices shall be read, while the silos are being filled.
2. The control device and associated equipment shall be inspected, including structural and filter integrity.
3. The permittee shall check the bin vents to insure there is no excess buildup of material.
4. The source and control device shall be checked for fugitive emissions.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions shall also be recorded in this manner.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 009 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across each fabric collector, mist eliminator and/or HEPA filter can be measured.

# 010 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall exhaust the formation operations through mist eliminators.

# 011 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Should any daily, weekly or quarterly pressure drop readings or visible emission readings deviate from the normal range or limit, the permittee shall record the incident and take corrective actions. All corrective actions shall be recorded.

The normal operational pressure drop ranges of each type of control device operated at EPM's Lyon Station, PA Battery Manufacturing Facility equipped with a pressure differential monitoring device are as follows:

Fabric filter dust collector - 0.1 to 10 inches of water.

Mist eliminator - 0.1 to 6 inches of water.

HEPA filter - 0.1 to 6 inches of water.

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.**

# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants

Applicability and designation of affected facility.

The sources listed below are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

- a. Source 111 (A-1 Mixing: Scientific FC #1 and Pasting: Farr FC #4)
- b. Source 113 (A-1 Gridcasting: Scientific FC #5 and FC #6)
- c. Source 114 (A-1 Battery Assembly: Wheelabrator FC #2 & Farr CC #4)
- d. Source 116A (A-1 Lead Oxide Storage Silos: Bin Vents)
- e. Source 192 (A-1 Burn & Stack: Scientific FC #5)
- f. Source 504 (A-1 Small Parts Casting)

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION E. Source Group Restrictions.

Group Name: SG 02 A-2 BATTERY ASSEMBLY

Group Description: A-2 Battery Assembly Plant

Sources included in this group:

ID	Name
130	A-2 BATTERY ASSEMBLY C (SCIENTIFIC FC 2)
131	A-2 MIXING (SCIEN FC 9) & PASTING (SCIEN FC 2 & 6)
132	A-2 COS & ENVELOPE (CARB FC 1 & SCIEN FC 10)
133	A-2 GRIDCAST (SCIEN FC 7, 2 & 10 & CARB FC 1)
133A	A-2 CONCASTER (CARB FC #1 & SCIENC FC #2)
133B	UNCONTROLLED GRIDCAST MACHINE NO 1
133C	UNCONTROLLED GRIDCAST MACHINE NO 2
133D	UNCONTROLLED GRIDCAST MACHINE NO 3
134	A-2 ASSEMBLY (SCIENTIFIC FC 8)
136	A-2 LEAD OXIDE STORAGE SILOS (7) (BIN VENTS)
138	A-2 BATT ASMBLY (FARR CC 3)
139	A-2 BATTERY FORMATION (8 MIST ELIMN)
140	A-2 BATT ASMBLY D (FARR CC 4)
193	A-2 GROUP ASSEMBLY 1 (SCIENTIFIC FC 5)
194	A-2 GROUP ASSEMBLY 2 (SCIENTIFIC FC 6)
195	A-2 GROUP ASSEMBLY 3 (SCIENTIFIC FC 7)
502	A-2 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)
503	A-2 RED LEAD OXIDE STORAGE SILO (BIN VENT)
508	A-2 COS/ENVELOPE/CONCAST (SCIEN 10)
512	A-2 HEAT SEAL BOOTHS #1- 8

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.21]

##### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in this group in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Note: This condition is not relevant to Sources 139 and 512 so long as these sources do not emit SO<sub>2</sub>.

# 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for parts of this condition are derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall limit the lead emissions to the outdoor atmosphere from these sources to the following as measured at the associated control device and/or stack:

a. Source 130 (A-2 Battery Assembly C: Scientific FC #2) - 0.0001 grains per dry standard cubic foot (PA 1069H & 1069J)

b. Source 131 (A-2 Mixing & Pasting: Scientific FC #2, #6 & #9) - 0.0001 grains per dry standard cubic foot (PA 1069M & 5069M)

## SECTION E. Source Group Restrictions.

- c. Source 132 (A-2 COS & Enveloping: Carborundum FC #1 & Scientific FC #10) - 0.0001 grains per dry standard cubic foot (PA 1069H, 1069J & 5069M)
- d. Source 133 (A-2 Gridcast: Scientific FC #7, #2 & #10 & Carborundum FC #1):
1. Carborundum FC #1 - 0.000344 grains per dry standard cubic foot (PA 5069I)
  2. Scientific FC #7, #2 & #10 - 0.0001 grains per dry standard cubic foot (PA 5069B, 5069C, 5069E, 5069M)
  3. Three (3) Uncontrolled Gridcast Machines - 0.000175 grains per dry standard cubic foot (NSPS)
- e. Source 133A (A-2 Concast [Lead Pots]: Carborundum FC #1 & Scientific FC #2):
1. Scientific FC #2 - 0.0001 grains per dry standard cubic foot (PA 5069D, 5069F, 5069H & 5069I)
  2. Carborundum FC #1 - 0.000344 grains per dry standard cubic foot (5069I)
- f. Source 134 (A-2 Assembly A: Scientific FC #8) - 0.0001 grains per dry standard cubic foot (PA 1069J & 5069D)
- g. Source 136 (A-2 Lead Oxide Storage Silos) - 0.0001 grains per dry standard cubic foot (PA 5069B & 5069J)
- h. Source 138 (A-2 Battery Assembly B: Farr FC #3) - 0.0001 grains per dry standard cubic foot (PA 1069 H & 1069J)
- i. Source 140 (A-2 Battery Assembly D: Farr FC #4) - 0.0001 grains per dry standard cubic foot (PA 1069H & 1069J)
- j. Source 193 (A-2 Group Assembly #1: Scientific FC #5) - 0.0001 grains per dry standard cubic foot (PA 1069H, 1069J & 1069M)
- k. Source 194 (A-2 Group Assembly #2: Scientific FC #6) - 0.0001 grains per dry standard cubic foot (PA 1069H, 1069J & 1069M)
- l. Source 195 (A-2 Group Assembly #3: Scientific FC #7) - 0.0001 grains per dry standard cubic foot (PA 1069H, 1069J, 5069E & 5069M)
- m. Source 502 (A-2 Small Parts Casting) - 0.000437 grains per dry standard cubic foot (NSPS & PA 5069C)
- n. Source 503 (A-2 Red Lead Oxide Storage Bin) - 0.0001 grains per dry standard cubic foot (PA 5069E)
- o. Source 508 (A-2 COS/ENVELOP/GRIDCAST: Scientific FC #10) - 0.0001 grains per dry standard cubic foot (PA 5069M)

# 003 [25 Pa. Code §127.441]

### [Operating permit terms and conditions.](#)

The permittee shall limit the sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) emissions to the outdoor atmosphere from Source 139 (A-2 Battery Formation) to 0.001 grains per dry standard cubic foot as measured at each mist eliminator stack. (PA 5069F)

# 004 [25 Pa. Code §127.441]

### [Operating permit terms and conditions.](#)

[Additional authority for parts of this condition is derived from 25 Pa Code section 123.13]

The permittee shall limit the particulate emissions to the outdoor atmosphere from these source to the following as measured at the associated devices and/or stack:

- a. Source 130 (A-2 Battery Assembly: Scientific FC #2) - 0.001 grains per dry standard cubic foot (appl)

**SECTION E. Source Group Restrictions.**

- b. Source 131 (A-2 Mixing & Pasting: Scientific FC #2, FC #6 & FC #9) - 0.001 grains per dry standard cubic foot (PA 1069M & 5069M)
- c. Source 132 (A-2 COS & Envelope: Carborundum FC #1 & Scientific FC #10) - 0.001 grains per dry standard cubic foot (Carborundum & Scientific) (PA 5069M)
- d. Source 133 (A-2 Gridcast: Scientific FC #7, #2 & #10 & Carborundum FC #1):
1. Carborundum FC #1 - 0.002 grains per dry standard cubic foot (5069I)
  2. Scientific FC #7, #2 & #10 - 0.001 grains per dry standard cubic foot (PA 5069B, 5069C, 5069E, 5069M & 5069N)
  3. Three (3) Uncontrolled Gridcast Machines - 0.002 grains per dry standard cubic foot (appl)
- e. Source 133A (A-2 Concaster [Lead Pots]: Carborundum FC #1 & Scientific FC #2) - 0.001 grains per dry standard cubic foot (PA 5069D, 5069F & 5069H)
- f. Source 134 (A-2 Battery Assembly A: Scientific FC #8) - 0.001 grains per dry standard cubic foot (appl)
- g. Source 136 (A-2 Lead Oxide Storage Silos: Bin Vents) - 0.001 grains per dry standard cubic foot (PA 5069J)
- h. Source 138 (A-2 Battery Assembly B: Farr CC #3) - 0.001 grains per dry standard cubic foot (PA 5069E)
- i. Source 140 (A-2 Battery Assembly D: Farr CC #4) - 0.001 grains per dry standard cubic foot (appl)
- j. Source 193 (A-2 Group Assembly #1: Scientific FC #5) - 0.001 grains per dry standard cubic foot (PA 1069M)
- k. Source 194 (A-2 Group Assembly #2: Scientific FC #6) - 0.001 grains per dry standard cubic foot (PA 1069M)
- l. Source 195 (A-2 Group Assembly #3: Scientific FC #7) - 0.001 grains per dry standard cubic foot (PA 5069M)
- m. Source 502 (A-2 Small Parts Casting) - 0.04 grains per dry standard cubic foot (123.13)
- n. Source 503 (A-2 Red Lead Oxide Storage Bin: Bin Vent) - 0.001 grains per dry standard cubic foot (PA 5069E)
- o. Source 512 (A-2 Heat Seal Booths #1-4) - 0.02 grains per dry standard cubic foot (company)
- p. Source 508 (A-2 COS/ENVELOP/GRIDCAST: Scientific FC #10) - 0.001 grains per dry standard cubic foot (PA 5069M)

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for parts of this condition are derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall operate all of the sources of SG02, except the concaster machines and Sources 139 and 512, in a manner that results in no visible emissions to the outdoor atmosphere.

The permittee shall limit the visible emissions from the concaster machines as follows:

- a. Lead pot - 0%
- b. Concasting operation:
  1. 20% or less for a period or periods aggregating more than 3 minutes in any one hour.
  2. 60% or less at any time.

**SECTION E. Source Group Restrictions.**

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 PA Section 129.91, RACT]

The permittee shall limit the volatile organic compound emissions to the outdoor atmosphere from the Source 133A (A-2 Concast) Caster Wheel to 0.02 grains per dry standard cubic foot as measured at the associated stack(s). (PA 5069B, 5069F & 5069I)

**Fuel Restriction(s).**

# 007 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall operate the sources in this source group only on natural gas and/or a propane-air mixture as a fuel.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 008 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for parts of this condition is derived from 40 CFR Part KK, NSPS]

The permittee shall conduct the following monitoring schedule on each particulate, lead and/or sulfuric acid mist control device in this group, except Source 136 (A-2 Lead Oxide Storage Silos) and Source 503 (A-2 Red Lead Oxide Storage Silo):

- a. Periodically read and record the pressure drop across each control device equipped with a HEPA filter and the HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- b. Periodically read and record the visible emissions from each control device equipped with a HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- c. Periodically conduct inspections of each control device and associated equipment, as appropriate, for:
  1. Visually inspect the control device and associated equipment
  2. Check for the proper removal of collected materials
  3. Check for fugitive emissions from the control device

The frequency of these inspections shall be weekly, except as provided in Section C, Condition 012.

- d. Ensure that the mist eliminator pads are rinsed in accordance with manufacturer recommendations.
- e. Perform a semiannual inspection and maintenance of each fabric collector, HEPA filter and associated equipment. This

**SECTION E. Source Group Restrictions.**

includes the inspection and maintenance to ensure proper performance of each fabric collector, including the structural and filter integrity of the collector.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

# 009 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall inspect Source 136 (A-2 Lead Oxide Storage Silos) and Source 503 (A-2 Red Lead Oxide Storage Silo) as follows:

Annually, during a delivery:

The permittee shall read and record the visible emissions from the stack (S16) controlling the storage silos using US EPA Method 22.

Quarterly:

- a. The pressure drop across the control devices and HEPA filter shall be read, while the silos are being filled.
- b. The control devices, HEPA filter and associated equipment shall be inspected including structural and filter integrity.
- c. The control device shall be checked to insure there is no excess buildup of materials.
- d. The source, control device and HEPA filter shall be checked for fugitive emissions.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 010 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Should any daily, weekly or quarterly pressure drop readings or visible emission readings deviate from the normal range or limit, the permittee shall record the incident and take any corrective actions required. All corrective actions shall be recorded.

# 011 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained

## SECTION E. Source Group Restrictions.

so that at any time the pressure drop across each fabric collector, mist eliminator and/or HEPA filter can be measured.

# 012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall exhaust the formation operations through Department approved mist eliminators only.

## VII. ADDITIONAL REQUIREMENTS.

# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

[Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants](#)

[Applicability and designation of affected facility.](#)

The sources listed below are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

- a. Source 130 (A-2 Battery Assembly C: Scientific FC #2)
- b. Source 131 (A-2 Mixing & Pasting: Scientific FC #2, FC #6 & FC #9)
- c. Source 132 (A-2 COS & Envelope: Carborundum FC #1 & Scientific FC #10)
- d. Source 133 (A-2 Gridcast: Scientific FC #7, #2 & #10 & Carborundum FC #1)
- e. Source 133A (A-2 Concast: Carborundum FC #1 & Scientific FC #2) - Lead Pots only
- f. Source 134 (A-2 Battery Assembly A: Scientific FC #8)
- g. Source 136 (A-2 Lead Oxide Storage Bins: Bin Vents)
- h. Source 138 (A-2 Battery Assembly B: Farr CC #3)
- i. Source 140 (A-2 Battery Assembly D: Farr FC #4)
- j. Source 193 (A-2 Group Assembly #1: Scientific FC #5)
- k. Source 194 (A-2 Group Assembly No. 2: Scientific FC #6)
- l. Source 195 (A-2 Group Assembly No. 3: Scientific FC #7)
- m. Source 502 (A-2 Small Parts Casting)
- n. Source 503 (Red Lead Oxide Storage Bin: Bin Vent)
- o. Source 508 (A-2 COS/Envelop/Gridcast: Scientific FC #10)

\*\*\* Permit Shield in Effect. \*\*\*



## SECTION E. Source Group Restrictions.

Group Name: SG 03 A-3 BATTERY ASSEMBLY

Group Description: A-3 Battery Assembly Plant

Sources included in this group:

ID	Name
151	A-3 PASTE MIXING (SCIENTIFIC FC #6)
152	A-3 BATTERY ASSEMBLY (SCIENTIFIC CC #1)
153	A-3 COS & ENVELOPE A (SCIENTIFIC FC #2)
154	A-3 LEAD OXIDE STORAGE SILOS (3) (BIN VENTS)
156	A-3 GRIDCAST (SCIENTIFIC FC #6)
156A	A-3 CONCAST (SCIEN FC 6)
157	A-3 COS & ENVELOPE B (SCIENTIFIC CC #3)
158	A-3 COS & ENVELOPE D (SCIENTIFIC CC #4)
159	A-3 COS & STACKING C (SCIENTIFIC FC #5)
191	A-3- BATTERY FORMATION (13 MIST ELIM)
505	A-3 SMALL PARTS CASTING (FUGITIVE/UNCONTROL)
513	A-3 HEAT SEAL BOOTHS #1 - 3

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.21]

##### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Note: This condition is not relevant to Sources 191 and 513 so long as these sources do not emit SO<sub>2</sub>.

# 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall operate all of the sources of SG03, subject to 40 CFR Part 60, Subpart KK, in a manner that results in no visible emissions to the outdoor atmosphere.

# 003 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this condition is derived from 25 PA Section 129.91, RACT]

The permittee shall limit the volatile organic compound emissions to the outdoor atmosphere from Source 156A (A-3 Concast) Caster Wheel to 0.02 grains per dry standard cubic foot as measured at the associated stack(s). (PA 5069B)

# 004 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

The permittee shall limit the sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) emissions to the outdoor atmosphere from the Source 191 (A-3 Battery Formation) to 0.001 grains per dry standard cubic foot as measured at each mist eliminator stack. (PA 5069F)

## SECTION E. Source Group Restrictions.

# 005 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for parts of this condition are derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall limit the lead emissions to the outdoor atmosphere from these sources to the following as measured at the associated control devices and/or stacks:

- a. Source 151 (A-3 Paste Mixing: Scientific FC #6) - 0.0001 grains per dry standard cubic foot (PA 5069I)
- b. Source 152 (A-3 Battery Assembly: Scientific CC #1) - 0.0001 grains per dry standard cubic foot (appl)
- c. Source 153 (A-3 COS & Enveloping A: Scientific FC #2 & #4) - 0.0001 grains per dry standard cubic foot (PA 5069I)
- d. Source 154 (A-3 Lead Oxide Bins: Bin Vents) - 0.0001 grains per dry standard cubic foot (RFD12/09)
- e. Source 156 (A-3 Gridcast: Scientific FC #6) - 0.0001 grains per dry standard cubic foot (PA 5069I)
- f. Source 156A (A-3 Concast [Lead Pots]: Scien FC #6) - 0.0001 grains per dry standard cubic foot (appl)
- g. Source 157 (A-3 COS & Envelope B: Scientific FC #3) - 0.0001 grains per dry standard cubic foot (appl)
- h. Source 158 (A-3 COS & Envelope D: Scientific CC #4) - 0.0001 grains per dry standard cubic foot (PA 5069I)
- i. Source 159 (A-3 COS & Stacking C: Scientific FC #5) - 0.0001 grains per dry standard cubic foot (appl)
- j. Source 505 (A-3 Small Parts Casting) - 0.000437 grains per dry standard cubic foot (NSPS)

# 006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for parts of this condition are derived from 25 Pa Code Section 123.13]

The permittee shall limit the particulate emissions to the outdoor atmosphere from these sources to the following as measured at the associated control devices and/or stacks:

- a. Source 151 (A-3 Paste Mixing: Scientific FC #6) - 0.001 grains per dry standard cubic foot (PA 5069I)
- b. Source 152 (A-3 Battery Assembly: Scientific CC #1) - 0.001 grains per dry standard cubic foot (appl)
- c. Source 153 (A-3 COS & Envelope A: Scientific FC #2 & #4) - 0.001 grains per dry standard cubic foot (PA 5069I)
- d. Source 154 (A-3 Lead Oxide Storage Bins: Bin Vents) - 0.001 grains per dry standard cubic foot (RFD12/09)
- e. Source 156 (A-3 Grid Casting: Scientific FC #6) - 0.001 grains per dry standard cubic foot (PA 5069I)
- f. Source 156A (A-3 Concast [Lead Pots]: Scien FC #6) - 0.001 grains per dry standard cubic foot (appl)
- g. Source 157 (A-3 COS & Envelope B: Scientific CC #3) - 0.001 grains per dry standard cubic foot (appl)
- h. Source 158 (A-3 COS & Envelope D: Scientific CC #4) - 0.001 grains per dry standard cubic foot (PA 5069I)

**SECTION E. Source Group Restrictions.**

- i. Source 159 (A-3 COS & Stacking C: Scientific CC #5) - 0.001 grains per dry standard cubic foot (appl)
- j. Source 505 (A-3 Small Parts Casting) - 0.04 grains per dry standard cubic foot (123.13)
- k. Source 513 (A-3 Heat Seal Booths #1-4) - 0.02 grains per dry standard cubic foot (company)

**Fuel Restriction(s).**

# 007 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall operate the source in this source group only on natural gas and/or a propane-air mixture as a fuel.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 008 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for parts of this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall conduct the following monitoring schedule on each particulate, lead and/or sulfuric acid mist control device in this group, except the Source 154 (A-3 Lead Oxide Storage Silos):

- a. Periodically read and record the pressure drop across each control device and HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012.
- b. Periodically read and record the visible emissions from each source, while the source is in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012.
- c. Periodically conduct inspections of each control device, HEPA filter and associated equipment, as appropriate for:
  - 1. Visually inspect the control device and equipment
  - 2. Check for the proper removal collected materials
  - 3. Check for fugitive emissions from the control device

The frequency of these inspections shall be weekly, except as provided in Section C, Condition 012.

- d. Ensure that the mist eliminator pads are rinsed in accordance with manufacturer recommendations.
- e. Perform a semiannual inspection and maintenance of each fabric collector, HEPA filter and associated equipment. This includes the inspection and maintenance of each fabric collector and HEPA filter to ensure proper performance, including the structural and filter integrity of the collector.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

**SECTION E. Source Group Restrictions.**

# 009 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall inspect the Source 154 (A-3 Lead Oxide Storage Silos) as follows:

Annually, during a delivery:

The permittee shall read and record the visible emissions from each bin vent using US EPA Method 22.

Quarterly:

- a. The pressure drop across the control devices shall be read, while the silos are being filled.
- b. The control devices and associated equipment shall be inspected, including structural and filter integrity.
- c. The bin vents shall be checked to insure there is no excess buildup of materials.
- d. The source and control device shall be checked for fugitive emissions.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 010 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across each fabric collector, mist eliminator and/or HEPA filter can be measured.

# 011 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Should any daily, weekly or quarterly pressure drop reading or visible emission reading deviate from the normal range or limit, the permittee shall record the incident and take corrective actions. All corrective actions shall be recorded.

# 012 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall exhaust the formation operations through Department approved mist eliminators only.

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.**

# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants

Applicability and designation of affected facility.

The sources listed below are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

- a. Source 151 (A-3 Paste Mixing: AAF Rotoclone & Scientific FC #6)
- b. Source 152 (A-3 Battery Assembly: Scientific FC #1)
- c. Source 153 (A-3 COS & Envelope: Scientific FC #2)
- d. Source 154 (A-3 Lead Oxide Storage Silos)
- e. Source 156 (A-3 Grid Casting: Scientific FC #6)
- f. Source 156A (A-3 Concast) - Lead Pots only
- g. Source 157 (A-3 COS & Envelope: Scientific FC #3)
- h. Source 158 (A-3 Pasting: Scientific FC #4 & #6)
- i. Source 159 (A-3 COS & Stacking: Scientific FC #5)
- j. Source 505 (A-3 Small Parts Casting)

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION E. Source Group Restrictions.

Group Name: SG 04 IND BATTERY ASSEMBLY

Group Description: Industrial Battery Assembly Plant

Sources included in this group:

ID	Name
135	IND LEAD OXIDE RECEIVING TANK (BIN VENT)
142	IND - BATTERY ASSEMBLY (OSI FC B)
143	IND GRIDCAST
144A	IND LEAD OXIDE STORAGE SILOS (2) (BIN VENTS)
146	IND MIX (AAF ROTO) & PASTE (CARB FC D)
147	IND BATT ASSEMBLY & DRY CHARGE (CARB FC D)
148	IND BATT ASSEMBLY (CARB FC E)
149	IND FORMING ROOM & WET CHARGE (5 MIST ELIM)
150	IND BATTERY BOOST (4 MIST ELIM)
190	IND BATT ASSEMBLY (FARR FC A)
506	IND SMALL PARTS CASTING (FUGITIVE/UNCONTROL)

## I. RESTRICTIONS.

## Emission Restriction(s).

# 001 [25 Pa. Code §123.21]

## General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Note: This condition is not relevant to Sources 149, 150 and 506 so long as these sources do not emit SO<sub>2</sub>.

# 002 [25 Pa. Code §127.441]

## Operating permit terms and conditions.

[Additional authority for parts of this condition are derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall operate all of the sources of SG04, subject to 40 CFR Part 60, Subpart KK, in a manner that results in no visible emissions to the outdoor atmosphere.

# 003 [25 Pa. Code §127.441]

## Operating permit terms and conditions.

[Additional authority for parts of this condition are derived from 25 Pa Code Section 123.13]

The permittee shall limit the emissions of particulate to the outdoor atmosphere from these sources to the following as measured at the associated control device and/or stack:

- a. Source 142 (Ind Battery Assembly A: OSI FC B) - 0.001 grains per dry standard cubic foot (appl)
- b. Source 143 (Ind Grid Cast) - 0.002 grains per dry standard cubic foot (PA 5069H)
- c. Source 144A (Ind Lead Oxide Storage Silos (2): Bin Vents) - 0.001 grains per dry standard cubic foot (PA 5069D)
- d. Source 146 (Ind Mix: AAF Rotocloner) - 0.003 grains per dry standard cubic foot (appl)

**SECTION E. Source Group Restrictions.**

- e. Source 146 (Ind Paste: Carborundum FC D) - 0.002 grains per dry standard cubic foot (PA 5069D)
- f. Source 147 (Ind Battery Assembly B & Dry Charge: Carborundum FC D) - 0.002 grains per dry standard cubic foot (appl)
- g. Source 148 (Ind Battery Assembly C: Carborundum FC E) - 0.002 grains per dry standard cubic foot (appl)
- h. Source 190 (Ind Battery Assembly D: Farr CC A) - 0.001 grains per dry standard cubic foot (appl)
- i. Source 506 (Ind Small Part Casting) - 0.04 grains per dry standard cubic foot (123.13)
- j. Source 135 (Ind Lead Oxide Receiving Tank) 0.001 grains per dry standard cubic foot (5069J)

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the emissions of sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) to the outdoor atmosphere from the Source 149 (Ind Forming Room) and Source 150 (Ind Battery Boost) to 0.001 grains per dry standard cubic foot as measured at each mist eliminator stack. (PA 5069F)

# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.372]

**Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants**  
**Standards for lead.**

[Additional authority for parts of this condition is derived from 25 Pa Code Section 127.1 and 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall limit the lead emissions to the outdoor atmosphere from these sources to the following as measured at the associated control devices and/or stack:

- a. Source 142 (Ind Battery Assembly A: OSI FC B) - 0.0001 grains per dry standard cubic foot (appl)
- b. Source 143 (Ind Gridcast) - 0.000175 grains per dry standard cubic foot (PA 1069I & 5069H)
- c. Source 144A (Ind Lead Oxide Storage Silos (2): Bin Vents) - 0.0001 grains per dry standard cubic foot (PA 5069D)
- d. Source 146 (Ind Mixing: AAF Rotocloner & Paste: Carborundum FC D) - 0.000437 grains per dry standard cubic foot (PA 1069M & 5069D)
- e. Source 147 (Ind Battery Assembly B & Dry Charge: Carborundum FC D) - 0.000437 grains per dry standard cubic foot (NSPS)
- f. Source 148 (Ind Battery Assembly C: Carborundum FC E) - 0.000437 grains per dry standard cubic foot (NSPS/MACT)
- g. Source 190 (Ind Battery Assembly D: Farr CC A) - 0.0001 grains per dry standard cubic foot (appl)
- h. Source 506 (Ind Small Parts Casting) - 0.000437 grains per dry standard cubic foot (NSPS/MACT)
- i. Source 135 (Ind Lead Oxide Receiving Tank) - 0.0001 grains per dry standard cubic foot (5069J)

**SECTION E. Source Group Restrictions.****Fuel Restriction(s).**

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall operate the sources in this source group only on natural gas and/or a propane-air mixture as a fuel.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 007 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall conduct the following monitoring schedule on each particulate, lead and/or sulfuric acid mist control device in this group, except the Source 144A (Ind Lead Oxide Storage Silos) and Source 135 (Ind Lead Oxide Receiving Bin):

- a. Periodically read and record the pressure drop across each control device equipped with a HEPA filter and the HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- b. Periodically read and record the visible emissions from each control device equipped with a HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- c. Periodically conduct inspections of each control device and associated equipment, as appropriate, for:
  1. Visually inspect the control device and associated equipment
  2. Check for the proper removal of collected materials
  3. Check for fugitive emissions from the control device

The frequency of these inspections shall be weekly, except as provided in Section C, Condition 012.

- d. Ensure that the mist eliminator pads are rinsed in accordance with manufacturer recommendations.
- e. Perform a semiannual inspection and maintenance of each fabric collector, HEPA filter and associated equipment. This includes the inspection and maintenance to ensure proper performance of each fabric collector and HEPA filter, including the structural and filter integrity of the collector.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective action should also be recorded in this manner.

# 008 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall inspect the Source 144A (Ind Lead Oxide Storage Silos (2) Bin Vents) and Source 135 (Ind Lead Oxide Receiving Tank) as follows:



## SECTION E. Source Group Restrictions.

Annually, during a delivery:

The permittee shall read and record the visible emissions from each bin vent using US EPA Method 22.

Quarterly:

- The Pressure drop across the control devices and HEPA shall be read, while the silos are being filled.
- The control devices, HEPA filter and associated equipment shall be inspected
- The control device, HEPA filter shall be checked to insure there is no buildup of material.
- The source, control device and HEPA filter shall be checked for fugitive emissions.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.373]

[Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants](#)  
[Monitoring of emissions and operations.](#)

This condition applies to Source 146 and Control Device C28:

The owner or operator of any lead-acid battery manufacturing facility subject to the provisions of this subpart and controlled by a scrubbing system(s) shall install, calibrate, maintain, and operate a monitoring device(s) that measures and records the pressure drop across the scrubbing system(s) at least once every 15 minutes. The monitoring device shall have an accuracy of  $\pm 5$  percent over its operating range.

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

### VI. WORK PRACTICE REQUIREMENTS.

# 010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Should any daily, weekly or quarterly pressure drop readings or visible emission readings deviate from the normal range or limit, the permittee shall record the incident and take corrective actions if appropriate. All corrective actions shall be recorded.

# 011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across each fabric collector, rotoclone, mist eliminator and/or HEPA filter can be measured.

**SECTION E. Source Group Restrictions.**

# 012 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall exhaust each formation operation through Department approved mist eliminators only.

**VII. ADDITIONAL REQUIREMENTS.**

# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

**Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants**

**Applicability and designation of affected facility.**

All of the sources in this source group except for formation (149 & 150) are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION E. Source Group Restrictions.

Group Name: SG 05 OXIDE PLANT

Group Description: Oxide Plant

Sources included in this group:

ID	Name
126	LEAD OXIDE MILL 1
127	LEAD OXIDE MILL 3
128	LEAD OXIDE MILL 2
129	LEAD OXIDE MILL 4
160	LEAD OXIDE MILL 5
161	LEAD OXIDE MILL 6
162	LEAD OXIDE MILL 7
163	LEAD OXIDE MILL 8
169	LEAD OXIDE MILL 9
170	LEAD OXIDE MILL 10
196	LEAD OXIDE MILL 11
197	LEAD OXIDE MILL 12
198	LEAD OXIDE MILL 13
199	LEAD OXIDE MILL 14
203	LEAD OXIDE MILL 15
204	LEAD OXIDE MILL 16
205	LEAD OXIDE MILL 17
206	LEAD OXIDE MILL 18
207	LEAD OXIDE MILL 19
208	LEAD OXIDE MILL 20
221	LEAD OXIDE MILL NO. 21
222	LEAD OXIDE MILL NO. 22
223	LEAD OXIDE MILL NO. 23
224	LEAD OXIDE MILL NO. 24
225	LEAD OXIDE MILL NO. 25
226	LEAD OXIDE MILL NO. 26
227	LEAD OXIDE MILL NO. 27
228	LEAD OXIDE MILL NO. 28

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.21]

##### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for parts of this condition are derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall limit the lead emissions to the outdoor atmosphere from each mill to 0.010 pounds per ton of lead feed.

**SECTION E. Source Group Restrictions.**

# 003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for parts of this condition are derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall operate each mill in a manner that results in no visible emissions to the outdoor atmosphere.

# 004 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall limit the lead emissions to the outdoor atmosphere from each lead oxide mill during any consecutive 12-month period to 0.06 tons.

# 005 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall limit the particulate emissions to the outdoor atmosphere from the oxide mills to 0.01 grains per dry standard cubic foot. (PA 5069C, 5069F, 5069G, 5069H, 5069I & 5069K)

**Fuel Restriction(s).**

# 006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall only operate the sources of this source group on natural gas and/or a propane-air mixture as a fuel.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall conduct the following monitoring schedule on each control device in this group:

- a. Periodically read and record the pressure drop across each control device equipped with a HEPA filter and the HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- b. Periodically read and record the visible emissions from each control device equipped with a HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- c. Periodically conduct inspections of each control device and associated equipment, as appropriate, for:

**SECTION E. Source Group Restrictions.**

1. Visually inspect the control device and associated equipment
2. Check for the proper removal of collected materials
3. Check for fugitive emissions from the control device

The frequency of these inspections shall be weekly, except as provided in Section C, Condition 012.

d. Perform a semiannual inspection and maintenance of each fabric collector, HEPA filter and associated equipment. This includes the inspection and maintenance to ensure proper performance of each fabric collector and HEPA filter, including an inspection of the structural and filter integrity of the collector.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

**IV. RECORDKEEPING REQUIREMENTS.**

# 008 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain the following records for each mill:

- a. Hours of operation
- b. Monthly amount of lead feed
- c. Monthly lead and particulate/PM-10/PM-2.5 emissions
- d. 12-month rolling lead and particulate/PM-10/PM-2.5 emission totals

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 009 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Should any daily, weekly or quarterly pressure drop readings or visible emission readings deviate from the normal range or limit, the permittee shall record the incident and take corrective actions as appropriate. All corrective actions shall be recorded.

# 010 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across each fabric collector and/or HEPA filter can be measured.

**VII. ADDITIONAL REQUIREMENTS.**

# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

**Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants  
Applicability and designation of affected facility.**

The Lead Oxide Mills No 4 through 34 are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of

**SECTION E. Source Group Restrictions.**

copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION E. Source Group Restrictions.

Group Name: SG 06 S-1 BATTERY ASSEMBLY

Group Description: S-1 Battery Assembly Plant

Sources included in this group:

ID	Name
181	S-1 BATTERY ASSMBLY & DRY CHARGE (SCIEN FC #3)
182	S-1 GRIDCAST (SCIENTIFIC FC #1)
182A	S-1 CONCAST (SCIENTIFIC FC #1)
183	S-1 GROUP ASSEMBLY (SCIENTIFIC FC #2)
184	S-1 MIXING (SCIENTIFIC FC #1) & PASTING (SCIENTIFIC FC #4)
185	S-1 LEAD OXIDE STORAGE SILOS (3) (BIN VENTS)
186	S-1 BATTERY ACTTN/BOOSTIN (5 MIST ELIM)
187	S- 1 BATT FORMATION (10 MIST ELIM)
188	S-1 UNIGY & GEL BATT ASSEM (SCIENTIFIC FC #5)
189	S-1 GROUP ASSEMBLY (SCIENTIFIC FC #4)
301	S-1A BATT ASSEMBLY ANNEX (SCIENTIFIC FC 6)
302	S-1A FORMATION ANNEX (3 MIST ELIM)
507	S-1 SMALL PART CASTING (FUGITIVE/UNCONT)
514	S-1 HEAT SEAL BOOTHS #1-3

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.21]

##### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Note: This condition is not relevant to Sources 186, 187, 302 or 514 so long as these sources do not emit SO<sub>2</sub>.

# 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this condition is derived from 25 PA Section 129.91, RACT]

The permittee shall limit the volatile organic compound emissions to the outdoor atmosphere from the Source 182A (S-1 Concast [Caster Wheel]) to 0.02 grains per dry standard cubic foot as measured at the associated stack(s). (PA 5069F)

# 003 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall operate all of the sources of SG06, subject to 40 CFR Part 60, Subpart KK, in a manner that results in no visible emissions to the outdoor atmosphere.

# 004 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

## SECTION E. Source Group Restrictions.

The permittee shall limit the emission of sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) to the outdoor atmosphere from the Source 186 (S-1 Battery Activation/Boosting), Source 187 (S-1 Battery Formation) and Source 302 (S-1A Formation) to 0.001 grains per dry standard cubic foot as measured at each mist eliminator stack. (PA 5069F)

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for parts of this condition are derived from 25 Pa Code Section 123.13]

The permittee shall limit the particulate emissions to the outdoor atmosphere from these sources to the following as measured at the associated control device and/or stack:

- a. Source 181 (S-1 Battery Assembly & Dry Charge: Scientific CC #3) - 0.001 grains per dry standard cubic foot (PA 5069N)
- b. Source 182 (S-1 Grid Casting: Scientific FC #1) - 0.001 grains per dry standard cubic foot (PA 5069N)
- c. Source 182A (S-1 Concast [Lead Pots]: Scientific FC #1) - 0.001 grains per dry standard cubic foot (PA 5069F & 5069N)
- d. Source 183 (S-1 Group Assembly: Scientific FC #2) - 0.001 grains per dry standard cubic foot (appl)
- e. Source 184 (S-1 Mixing: Scientific FC #1 & Pasting: Scientific FC #4) - 0.001 grains per dry standard cubic foot (PA 5069J & 5069N)
- f. Source 185 (S-1 Lead Oxide Storage Bins: Bin Vents) - 0.001 grains per dry standard cubic foot (appl)
- g. Source 188 (S-1 Unigy & Gel Battery Assembly: Scientific FC #5) - 0.001 grains per dry standard cubic foot (PA 5069F)
- h. Source 189 (S-1 Group Assembly: Scientific FC#4) - 0.001 grains per dry standard cubic foot (PA 5069F)
- i. Source 301 (S-1A Battery Assembly Annex: Scientific FC #6) - 0.001 grains per dry standard cubic foot (PA 5069F)
- j. Source 507 (S-1 Small Parts Casting) - 0.04 grains per dry standard cubic foot (123.13)
- k. Source 514 (S-1 Heat Seal Booths #1-3: Fiber Beds) - 0.02 grains per dry standard cubic foot (appl)

# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.372]

Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants  
Standards for lead.

[Additional authority for parts of this condition is derived from 25 Pa Code Section 127.1]

The permittee shall limit the lead emissions to the outdoor atmosphere from these source to the following as measured at the associated control device and/or stack:

- a. Source 181 (S-1 Battery Assembly & Dry Charge: Scientific CC #3) - 0.0001 grains per dry standard cubic foot (PA 5069N)
- b. Source 182 (S-1 Gridcast: Scientific FC #1) - 0.0001 grains per dry standard cubic foot (PA 5069N)
- c. Source 182A (S-1 Concast [Lead Pots]: Scientific FC #1) - 0.0001 grains per dry standard cubic foot (PA 5069N)
- d. Source 183 (S-1 Group Assembly: Scientific FC #2) - 0.0001 grains per dry standard cubic foot (appl)



**SECTION E. Source Group Restrictions.**

- e. Source 184 (S-1 Mixing: Scientific FC #1 & Pasting: Scientific FC #4) - 0.0001 grains per dry standard cubic foot (PA 5069J & 5069N)
- f. Source 185 (S-1 Lead Oxide Storage Bins: Bin Vents) - 0.0001 grains per dry standard cubic foot (RFD12/09)
- g. Source 188 (S-1 Unigy & Gel Battery Assembly: Scientific FC #5) - 0.0001 grains per dry standard cubic foot (PA 5069F)
- h. Source 189 (S-1 Group Assembly #2: Scientific FC #4) - 0.0001 grains per dry standard cubic foot (PA 5069F)
- i. Source 301 (S-1A Battery Assembly Annex: Scientific FC #6) - 0.0001 grains per dry standard cubic foot (PA 5069F)
- j. Source 505 (S-1 Small Parts Casting) - 0.000437 grains per dry standard cubic foot (NSPS/MACT)

**Fuel Restriction(s).**

# 007 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only operate the sources in this source group on natural gas and/or a propane-air mixture as a fuel.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 008 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall conduct the following monitoring schedule on each particulate, lead and/or sulfuric acid mist control device in this group, except the Source 185 (S-1 Lead Oxide Storage Silos):

- a. Periodically read and record the pressure drop across each control device equipped with a HEPA filter and the HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- b. Periodically read and record the visible emissions from each control device equipped with a HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- c. Periodically conduct inspections of each control device and associated equipment, as appropriate, for:
  - 1. Visually inspect the control device and associated equipment
  - 2. Check for the proper removal of collected materials
  - 3. Check for fugitive emissions from the control device

The frequency of these inspections shall be weekly, except as provided in Section C, Condition 012.

**SECTION E. Source Group Restrictions.**

- d. Ensure that the mist eliminator pads are rinsed in accordance with manufacturer recommendations.
- e. Perform a semiannual inspection and maintenance of each fabric collector, HEPA filter and associated equipment. This includes the inspection and maintenance to ensure proper performance of each fabric collector and HEPA filter, including an inspection of the structural and filter integrity of the collector.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

# 009 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall inspect the Source 185 (S-1 Lead Oxide Storage Silos (2): Bin Vents) as follows:

Annually, during a delivery:

The permittee shall read and record the visible emissions from each bin vent using US EPA Method 22.

Quarterly:

- a. The pressure drop across the control devices and HEPA filter shall be read, while the silos are being filled.
- b. The control devices, HEPA filter and associated equipment shall be inspected including structural and filter integrity.
- c. The control device and HEPA filter shall be checked to insure there is no excess buildup of materials.
- d. The source, control device and HEPA filter shall be checked for fugitive emissions.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 010 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Should any daily, weekly or quarterly pressure drop readings or visible emission readings deviate from the normal range or limit, the permittee shall record the incident and when appropriate take corrective actions. All corrective actions shall be recorded.

# 011 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

**SECTION E. Source Group Restrictions.**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across each fabric collector, mist eliminator and/or HEPA filter can be measured.

# 012 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall exhaust each formation operation through the Department approved mist eliminators only.

**VII. ADDITIONAL REQUIREMENTS.**

# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

[Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants](#)

[Applicability and designation of affected facility.](#)

All of the sources in this group source except formation (186 & 187) and heat sealers (514) are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION E. Source Group Restrictions.**

Group Name: SG 07 WASTE WATER TP

Group Description: Waste Water Treatment Plant

Sources included in this group:

ID	Name
210	WTP SALT DRYER
211	WTP SALT TRUCK LOADOUT OPERATION
212	WTP SALT STORAGE SILOS

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall limit the emissions of particulate matter to the outdoor atmosphere from the sources in a manner that the concentration of particulate matter in the effluent gas does not exceed 0.04 grain per dry standard cubic foot.

# 002 [25 Pa. Code §123.21]

**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

In the event that visible emissions are observed from any of the sources in this Source Group, the permittee shall take any appropriate corrective action within 15 days.

**Fuel Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only operate the sources in this source group on natural gas and/or a propane-air mixture as a fuel.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall periodically conduct the following monitoring of each particulate control device in this group:

- read the pressure drop across the control device.
- observe the control device for:

**SECTION E. Source Group Restrictions.**

1. Wear and damage
2. Removal of collected materials
3. Fugitive emissions from the control device
4. Operation of the control device

The frequency of these readings and observations shall be weekly, in any week in which the respective source for the control device operates, except as provided in Section C, Condition 012.

The permittee shall record the results of each inspection on the approved inspection sheets. If a source did not operate in a given week, that fact shall also be noted on the approved inspection sheets.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across each fabric collector can be measured.

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION E. Source Group Restrictions.

Group Name: SG 08 A-4 BATTERY ASSEMBLY PLANT

Group Description: A-4 Battery Assembly Plant

Sources included in this group:

ID	Name
401	A-4 LEAD OXIDE STORAGE SILOS (9) (BIN VENTS)
402	A-4 MIXING (SCIEN #6) & PASTING (SCIEN #1)
403	A-4 GRIDCASTING (SCIEN FC #2)
404	A-4 CONCASTING (SCIEN FC #2)
405	A-4 THREE-PROCESS-OPR (SCIEN FC #3 & #4)
406	A-4 BATTERY FORMATION (9) (MIST ELIM)
407	A-4 BATT ASSEMBLY LINES (SCIEN FC #5)
516	A-4 HEAT SEAL BOOTHS 1 - 5: FIBER BEDS OR EQIV APPRVD CTRL

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §123.21]

##### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Note: This condition is not relevant to Sources 406 and 516 so long as these sources do not emit SO<sub>2</sub>.

# 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall operate all of the sources of SG08, subject to 40 CFR Part 60, Subpart KK, in a manner that results in no visible emissions to the outdoor atmosphere.

# 003 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

The permittee shall limit the emissions of sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) to the outdoor atmosphere from the Source 406 (A-4 Battery Formation) to 0.001 grains per dry standard cubic foot based on the US EPA Test Method 8 as found in 40 CFR Part 60 or any other method approved by the Department as measured at each mist eliminator stack. (PA 5069K)

# 004 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

The permittee shall limit the particulate/PM-10 emissions to the outdoor atmosphere from each of the sources in this source group except Sources 406 (A-4 Battery Formation) and the Heat Sealing Operation of Source 516 (A-4 Heat Seal) to 0.001 grains per dry standard cubic foot as measured at the associated control device and/or stack. (PA 5069K)

# 005 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

**SECTION E. Source Group Restrictions.**

The permittee shall limit the lead emissions to the outdoor atmosphere from all of the sources in this source group except Source 406 (A-4 Battery Formation) to 0.0001 grains per dry standard cubic foot as measured at the associated control device and/or stack. (PA 5069K)

# 006 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall limit the emissions of particulate/PM-10 to the outdoor atmosphere from the Heat Sealing Operation Source 516 (A-4 Heat Sealing) to 0.0075 grains per dry standard cubic foot as measured in the stack (S516). (PA 5069K)

# 007 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

AAA

The discharge to the atmosphere from the following fabric filters shall not exceed the following hours during any consecutive 12-month period (rolling basis):

- a. A-4 Dryside Pasting Fabric Collector C402 [Source 402: A-4 Pasting Operation (Scientific #1) Dryside] - 7,200 hours
- b. A-4 Gridcasting Fabric Collector C403 [Source 403: A-4 Gridcasting & Source 404: A-4 Concasting (Scientific #2)] - 8,000 hours
- c. A-4 Three-Process Fabric Collectors C405 & C415 [Source 405: A-4 Three-Process Operation (Scientific #3 & #4)] - 7,200 hours each
- d. Assembly Fabric Collector C407 [Source 407: A-4 Battery Assembly (Scientific #5)] - 7,200 hours
- e. A-4 Wetside Pasting Fabric Collector C408 [Source 402: A-4 Pasting Operation (Scientific #6) Wetside] - 8,000 hours

The status of the recirculation damper or equivalent alternative operating parameter for each of the above fabric collectors listed shall be monitored and the results recorded whenever the sources being controlled (i.e., Sources 402 through 405 and 407) are operating. A "discharge hour" shall be determined by dividing the total minutes recorded for each control device in each calendar month by 60.

BBB

The operating hours of the following sources shall not exceed the following during any consecutive 12-month period (rolling basis):

- a. Source 401: A-4 Lead oxide Storage Silos (Bin Vent) - 4,400 hours
- b. Source 516: A-4 Heat Sealing Operation (Fiber Bed) - 8,600 hours

The hours of lead oxide transfer for Source 401; and the hours of operation for Source 516, shall be recorded.

# 008 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The fugitive emissions (Z400) from the Sources 405 (A-4 Three-Process-Operation) and 407 (A-4 Battery Assembly Lines) are not subject to 40 CFR Part 60, Subpart KK, NSPS.(PA 06-05069K)

[Fuel Restriction\(s\).](#)

# 009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

**SECTION E. Source Group Restrictions.**

The permittee shall operate the sources in this source group using only natural gas and/or a propane-air mixture as a fuel.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

# 010 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for parts of this condition is derived from 40 CFR Part 60, Subpart KK, NSPS]

The permittee shall adhere to the following monitoring schedule for each particulate, lead and/or sulfuric acid mist control device in this source group except Source 401 (A-4 Lead Oxide Storage Silos):

- a. Periodically read and record the pressure drop across each control device equipped with a HEPA filter and the HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- b. Periodically read and record the visible emissions from each control device equipped with a HEPA filter, while the sources are in operation. The frequency of these readings shall be weekly, except as provided in Section C, Condition 012. For those collectors without a HEPA filter, these readings shall be daily, except as provided in Section C, Condition 012.
- c. Periodically conduct inspections of each control device and associated equipment, as appropriate, for:
  1. Visually inspect the control device and associated equipment
  2. Check for the proper removal of collected materials
  3. Check for fugitive emissions from the control device

The frequency of these inspections shall be weekly, except as provided in Section C, Condition 012.

- d. Ensure that the mist eliminator pads are rinsed in accordance with manufacturer recommendations.
- e. Perform a semiannual inspection and maintenance of the each fabric collector, HEPA filter and associated equipment. This includes an inspection and maintenance to ensure proper performance of each fabric collector and HEPA filter, including an inspection of the structural and filter integrity of the collector and HEPA filter.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

# 011 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall inspect the Source 401 (A-4 Lead Oxide Storage Silos: Bin Vents) as follows:

- a. Annually, during a delivery:

The permittee shall read and record the visible emissions from each silo using US EPA Method 22.



**SECTION E. Source Group Restrictions.****b. Quarterly:**

1. The pressure drop across the control devices and HEPA filter shall be read, while the silos are being filled.
2. The control device, HEPA filter and associated equipment shall be inspected including structural and filter integrity.
3. The control device and HEPA filter shall be checked to insure there is no excess build-up of material.
4. The source, control device and HEPA filter shall be checked for fugitive emissions.

The permittee shall record the results of each reading and inspection on the approved inspection sheets. Any corrective actions should also be recorded in this manner.

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 012 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed and maintained so that at any time the pressure drop across each fabric collector, HEPA filter, filter bed mist collector and/or mist eliminator can be measured.

# 013 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall exhaust each formation operation through the Department approved mist eliminators only.

# 014 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee, in conjunction with the Manufacturer's specifications, shall set-up a monitoring and cleaning schedule for the heat sealing (Source 407: A-4 Battery Assembly Lines) control devices.

# 015 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Should any daily, weekly or quarterly pressure drop readings or visible emission readings deviate from the normal range or limit, the permittee shall record the incident and take corrective actions. All corrective actions shall be recorded.

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.**

# 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.370]

Subpart KK - Standards of Performance for Lead-Acid Battery Manufacturing Plants

Applicability and designation of affected facility.

All of the sources in this source group except formation (Source 406) and Heat Seal (Source 516) are subject to Subpart KK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, Pa 19103-2029

\*\*\* Permit Shield in Effect. \*\*\*

**SECTION E. Source Group Restrictions.**

Group Name: SG 09 SUBPART ZZZZ

Group Description: Emergency RICE Subpart ZZZZ

Sources included in this group:

ID	Name
601	EMERGENCY GENERATORS

**I. RESTRICTIONS.**

Emission Restriction(s).

# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

When do I have to comply with this subpart?

- 1.) If you have an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations in this Source Group by no later than May 3, 2013
- 2.) If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations in this Source Group by no later than October 19, 2013.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What records must I keep?

(e) The permittee shall keep records of the maintenance conducted on the stationary reciprocating internal combustion engines (RICE) operated at the lead-acid battery manufacturing facility in order to demonstrate that the stationary RICE were operated and maintained according to the maintenance plan.

(f) The permittee shall keep records of the hours of operation of each engine, recorded through its non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

In what form and how long must I keep my records?

(a) Records kept pursuant to this Source Group must be in a form suitable and readily available for expeditious review.

(b) - (c) The permittee shall keep each record pursuant to this Source Group readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

## SECTION E. Source Group Restrictions.

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

### VI. WORK PRACTICE REQUIREMENTS.

# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6602]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

The permittee shall perform the following operational and maintenance requirements on each of the stationary reciprocating internal combustion engines (RICE) operated at the lead-acid battery manufacturing facility as specified by 40 CFR §63.6602 and Table 2c

- Change oil and filter every 500 hours of operation or annually, whichever comes first,
- Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first,
- Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

(e) and Table 6: The permittee shall operate and maintain the stationary reciprocating internal combustion engines (RICE) at the lead-acid battery manufacturing facility according to the manufacturer's emission-related operation and maintenance instructions; or the permittee shall develop and follow a maintenance plan. The maintenance plan must provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions you must install a non-resettable hour meter if one is not already installed.

# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart [TABLE 2C 1 APPLIES], you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the

**SECTION E. Source Group Restrictions.**

program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart [TABLE 2C 6 APPLIES], you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(f) The permittee shall not operate the stationary reciprocating internal combustion engines (RICE) at the lead-acid battery manufacturing facility in such a way that exceeds the following operating hour limits for each engine:

- a. 50 hours per year for non-emergency operation.
- b. 100 hours per year for maintenance and readiness test runs, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine.

The permittee may operate the stationary reciprocating internal combustion engines (RICE) operated at the lead-acid battery manufacturing facility for up to 50 hours per year in nonemergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for the facility.

**VII. ADDITIONAL REQUIREMENTS.**

# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What parts of the General Provisions apply to me?

If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8 of Subpart ZZZZ.

\*\*\* Permit Shield in Effect. \*\*\*

## SECTION E. Source Group Restrictions.

Group Name: SG 10 RACT

Group Description: RACT Sources

Sources included in this group:

ID	Name
133A	A-2 CONCASTER (CARB FC #1 & SCIENC FC #2)
156A	A-3 CONCAST (SCIEN FC 6)
182A	S-1 CONCAST (SCIENTIFIC FC #1)
213	MISCELLANEOUS CHEM
214	SPRAY BOOTH- CENTRAL MAINT PAINT BOOTH
404	A-4 CONCASTING (SCIEN FC #2)
603	SMALL PARTS COATING OPERATION
604	IND BATTERY TOUCH-UP OPERATION
605	BATTERY FINISHING
608	GASOLINE AND DIESEL HANDLING

### I. RESTRICTIONS.

#### Emission Restriction(s).

# 001 [25 Pa. Code §129.91]

Control of major sources of NOx and VOCs

Condition AAA:

VOC and NOx RACT conditions for combustion sources:

- a.) The permittee shall maintain a current inventory of all space heaters, water heaters, combustion sources, air make-up units and boilers at the facility. The inventory shall include the location and the fuel and heat input ratings of each unit. The inventory shall be made available to the Department upon request. The permittee shall provide prior notification to the Department of the installation of any new source which would increase the facility's potential-to-emit of NOx or VOC by more than 1 TPY, except for sources specifically exempted by 25 Pa Code Section 127.14. Any new sources subject to the Department's Chapter 127 permitting requirements will be required to receive a Plan Approval before construction.
- b.) The permittee shall maintain records of the fuel consumption on a monthly basis in a method approved by the Department. The records shall be kept onsite for a period of five (5) years. The records shall contain the following minimum information:
  - i. Monthly fuel consumption
  - ii. Type of fuel
  - iii. Heating value of each fuel used in BTUs
  - iv. Monthly fuel consumption in BTUs
  - v. 12-month rolling total of BTUs fired
- c.) The permittee shall operate all of the sources that combust fuel in accordance with good combustion practices (e.g. operating sources in accordance with manufacturer specifications and preventative maintenance procedures in accordance with 25 Pa. Code Section 129.93(c)(1)) to limit the NOx, CO and VOC emissions.

Condition BBB:

VOC RACT

- a.) VOC emissions from sources at the facility which were in operation prior to 12/00 (as identified in Tables A-1 through A-6 of Attachment A of East Penn's 10/18/10 letter to DEP) shall not exceed the following amounts based on 12-month running totals:

**SECTION E. Source Group Restrictions.**

1.) Battery Finishing - 15 tpy

2.) Concasting - 4.5 tpy

3.) Gas & Diesel Handling - 2.0 tpy

4.) Spray painting:

i. Source 214 - 2.6 tons

ii. Source 603 - 2.4 tons

iii. Source 604 - 2.6 tons

5.) Misc. Chemicals - 27.2 tpy

b.) So long as the facility-wide VOC emissions from each of the above categories or subcategories do not exceed the levels specified above, East Penn may demonstrate compliance with this condition by tracking and reporting the facility-wide VOC emissions from each of the above categories or subcategories. In the event that the facility-wide VOC emissions from any of the above categories or subcategories exceeds the 12-month running total for that category, East Penn shall for that period do a separate calculation of the VOC emissions from that source category or subcategory from the sources at the facility which were in operation prior to 12/00. In the event that such a separate calculation is needed for the Miscellaneous Chemicals source category, the calculation of emissions from pre-12/00 sources shall be done by taking facility wide emissions in that category, and applying a ratio, based on battery and/or oxide production in the affected pre-12/00 sources.

c.) The permittee shall keep sufficient records to enable the demonstration of compliance with Condition CCC(a) and (b).

d.) 25 Pa. Code Section 129.61: A person may not transfer gasoline from a delivery vessel into a stationary gasoline storage tank of greater than 2,000 gallons unless the displaced vapors from the storage tank are transferred to the dispensing delivery tank through a vapor right return line and unless the receiving tank is equipped with a submerged fill pipe which extends from the filling orifice to within 6 inches of the bottom of the tank. The vapors collected in the dispensing tank shall be disposed of in accordance with § 129.59 or § 129.60(c) (relating to bulk gasoline terminals; and bulk gasoline plants). The dispensing delivery tank shall remain vapor tight at all times. The delivery tank may be opened after the vapors are disposed of in accordance with § 129.59 or § 129.60(c).

e.) The permittee shall only apply the concasting wheel oil by brush or equivalent method as approved by the Department.

f.) The permittee shall record the quantity and identity of all VOC-containing coatings, and all VOC-containing solvents used for cleaning purposes on the various sources on a monthly basis. These records shall be maintained and shall be made part of the permittee's annual "AIMS" report to the Department. The records shall be compiled into a monthly and 12-month rolling total format.

g.) Manufacturer supplied Certified Product Data Sheets (CPDS) and/or Material Safety Data Sheets (MSDS) for all coatings and cleaning agents applied within the most recent five (5) years shall be maintained at the facility and be made available to the Department at any time upon request.

h.) The permittee shall minimize the VOC emissions from the miscellaneous solvent usage in the following manner:

i. All solvents shall be stored and transported in normally closed containers or pipes.

ii. All rags containing solvent shall be placed into normally closed storage containers for storage.

iii. All rags containing solvent shall be placed into sealed containers and removed from the facility as part of disposal.

iv. Spills of materials containing VOCs shall be minimized and shall be cleaned up immediately with cleaning cloths or other methods that will minimize the evaporation of VOCs into the atmosphere.

v. Minimize VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent, and all spent solvent is captured in closed

**SECTION E. Source Group Restrictions.**

containers.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

\*\*\* Permit Shield in Effect. \*\*\*





## SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.



## SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

#001

This permit incorporates and supersedes the following Operating Permits:

06-01069D issued December 1, 1999

06-01069R issued January 19, 2011

and Plan Approvals (except as noted below):

- a. 06-1069F issued October 20, 1999, to East Penn Mfg. Co., Inc.
- b. 06-1069G issued November 5, 1999, to East Penn Mfg. Co., Inc.
- c. 06-1069H issued March 20, 2000, to East Penn Mfg. Co., Inc.
- d. 06-1069I issued August 21, 2000, to East Penn Mfg. Co., Inc.
- e. 06-1069J issued June 14, 2000, to East Penn Mfg. Co., Inc.
- f. 06-1069K issued March 9, 2001, to East Penn Mfg. Co., Inc.
- g. 06-1069M issued March 22, 2001, to East Penn Mfg. Co., Inc.
- h. 06-1069O issued September 13, 2001, to East Penn Mfg. Co., Inc.
- i. 06-5069A issued April 24, 2002, to East Penn Mfg. Co., Inc.
- j. 06-5069B issued September 28, 2005, to East Penn Mfg. Co., Inc.
- k. 06-05069C issued on March 23, 2004, to East Penn Mfg. Co., Inc.
- l. 06-5069D issued on July 8, 2004, to East Penn Mfg. Co., Inc.
- m. 06-05069E issued on September 15, 2004, to East Penn Mfg. Co., Inc.
- n. 06-05069F issued on June 14, 2005, to East Penn Mfg. Co., Inc.
- o. 06-05069G issued on June 28, 2005, to East Penn Mfg. Co., Inc.
- p. 06-05069H issued on January 27, 2006, to East Penn Mfg. Co., Inc.
- q. 06-05069I issued on March 23, 2006, to East Penn Mfg. Co., Inc.
- r. 06-05069J issued on March 14, 2007, to East Penn Mfg. Co., Inc.
- s. 06-05069K issued on March 27, 2007, to East Penn Mfg. Co., Inc.

While this permit incorporates the applicable requirements and conditions of this plan approval, the authority for the permittee to complete the changes approved by this plan approval will not be superseded by this permit until the applicable expiration date of the plan approval.

- t. 06-05069L issued on September 7, 2007, to East Penn Mfg. Co., Inc.
- u. 06-05069M issued on October 1, 2007, to East Penn Mfg. Co., Inc.
- v. 06-05069N issued on September 5, 2008, to East Penn Mfg. Co., Inc.

While this permit incorporates the applicable requirements and conditions of this plan approval, the authority for the permittee to complete the changes approved by this plan approval will not be superseded by this permit until the applicable expiration date of the plan approval.

- w. 06-05069O issued on October 20, 2008, to East Penn Mfg. Co., Inc.

While this permit incorporates the applicable requirements and conditions of this plan approval, the authority for the permittee to complete the changes approved by this plan approval will not be superseded by this permit until the applicable expiration date of the plan approval.

- x. 06-05069P issued on March 13, 2009, to east Penn Mfg. Co., Inc.

#002

The capacity/throughput values listed in this permit are for information purposes only and are not operating limits unless they are included within a condition.

#003

The Fugitive Stack Z400 is a grouping of various emissions from uncontrolled burner exhausts. Source 405 and 407 include various lead pots in which lead is melted for use in the processes. These pots are heated by burners that use natural gas or a propane-air mixture. The exhaust from this combustion is not directed to either a control device or stack. These fugitive emissions

## SECTION H. Miscellaneous.

are not subject to 40 CFR Part 60, Subpart KK, Standards of Performance for New Stationary Sources.

#004

EPM's Lyon Station Battery Manufacturing Facility includes the following insignificant miscellaneous activities:

Source 606 - Central Services Wood Shop

Source 607 - Central Services Welding

Source 701 - A-1 Central Vacuum System



\*\*\*\*\* End of Report \*\*\*\*\*